TUGAS AKHIR - SM 141501

PEMODELAN KEBISINGAN AKIBAT AKTIFITAS PESAWAT DAN OPTIMALISASI KEBISINGAN DI BANDARA JUANDA DENGAN MENGGUNAKAN MODEL LES FRAIR

BRIGITA SANCE
NRP 1213 100 089

Dosen Pembimbing

Dr. Dra. Mardlijah, M.T
Dra. Nur Asiyah, M. Si

DEPARTEMEN MATEMATIKA
Fakultas Matematika dan Ilmu Pengetahuan Alam
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FINAL PROJECT – SM 141501

MODELLING OF NOISE CAUSED BY AIRCRAFT ACTIVITY AND NOISE OPTIMIZATION AT JUANDA AIRPORT USING LES FRAIR MODEL

BRIGITA SANCE
NRP 1213 100 089

Supervisors
Dr. Dra. Mardlijah, M. T
Dra. Nur Asiyah , M. Si

DEPARTMENT OF MATHEMATICS
Faculty of Mathematics and Natural Sciences
Sepuluh Nopember Institute of Technology
Surabaya 2017

LEMBAR PENGESAHAN

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TUGAS AKHIR

Diajukan untuk Memenuhi Salah Satu Syarat Memperoleh Gelar
Sarjana Sains pada
Bidang Studi Pemodelan dan Simulasi Sistem
Program Studi S-1 Departemen Matematika
Fakultas Matematika dan Ilmu Pengetahuan Alam
Institut Teknologi Sepuluh Nopember Surabaya

Oleh :
Brigita Sance
NRP. 1213100089

Menyetujui,

Dosen Pembimbing II,	Dosen Pembimbing I,
Dra. Nur Asiyah, M. Si	Dr. Dra. Mardlijah, M.T
NIP. 19610822 198701 2 001	NIP. 19670114 199102 2 001

Mengetahui,
Kepala Departemen Matematika FMIPA ITS

Dr. Imam Mukhlash, S.Si, M.T
NIP. 19700831 199403 1 003
Surabaya, 10 Juli 2017

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PEMODELAN KEBISINGAN AKIBAT AKTIFITAS PESAWAT DAN OPTIMALISASI KEBISINGAN DI BANDARA JUANDA DENGAN MENGGUNAKAN MODEL LES FRAIR

Nama : Brigita Sance
NRP : 1213100089
Departemen : Matematika FMIPA-ITS
Dosen Pembimbing : 1. Dr. Dra. Mardlijah, M.T
2. Dra. Nur Asiyah, M. Si

ABSTRAK

Kebisingan pada bandar udara akibat aktifitas pesawat terbang banyak ditemui di Indonesia. Kebisingan ini disebabkan oleh suara mesin yang digunakan pada pesawat. Banyaknya jumlah permintaan penerbangan dan angkutan barang mengakibatkan berbagai maskapai menambah jumlah penerbangan. Kesibukan penerbangan yang terjadi pada bandara mengakibatkan tingkat kebisingan semakin bertambah dan mengganggu masyarakat sebagai pendengar. Fungsi tujuan dibentuk kemudian dioptimalkan untuk meminimalkan kebisingan. Bandar Udara Juanda sebagai studi kasus dalam Tugas Akhir ini beroperasi pada jam 05.00 sampai jam 22.00.

Keadaan kapasitas penerbangan pada bandara menjadi fungsi batas pada permasalahan ini. Tingkat kebisingan yang minimum dibentuk kedalam fungsi Ldn atau batas tingkat kebisingan pada siang dan malam. Penjadwalan penerbangan dimodelkan berdasarkan tingkat kebisingan minimum dan fungsi batas. Penurunan tingkat kebisingan setelah dioptimalkan diketahui dengan menghitung perbandingan indeks dampak kebisingan atau NII sebelum dan sesudah dioptimalkan.

Kata kunci : *bandara, kebisingan, model matematika*

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MODELLING OF NOISE CAUSED BY AIRCRAFT ACTIVITY AND NOISE OPTIMIZATION AT JUANDA AIRPORT USING LES FRAIR MODEL

Name	: Brigita Sance
NRP	: 1213100089
Department	: Matematika FMIPA-ITS
Supervisors	: 1. Dr. Dra. Mardlijah, M.T
	2. Dra. Nur Asiyah, M. Si

ABSTRACT

Noise at airports due to aircraft activity is widely found in Indonesia. This noise is caused by the sound of the engine used on the aircraft. The large number of aviation and freight demand has resulted in airlines increasing the number of flights. Busyness of the flight that occurred at the airport resulted in increased noise levels and disrupt the community as listeners. The purpose function is then optimized to minimize noise. Juanda Airport as a case study in this study operated from 05.00 to 22.00.

The states of flight capacity at the airport are boundary functions on this issue. Minimum noise levels are formed into Ldn function or noise level limits during day and night. Flight scheduling is modeled on the minimum noise level and boundary function. Decrease in noise level after optimized is known by calculating comparison of noise index or NII before and after optimization

***Keywords**: airport, noise, mathematical model*

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Surabaya, Mei 2017

Penulis

DAFTAR ISI

Hal

Hal

DAFTAR TABEL

Hal

“Halaman ini sengaja dikosongkan”

DAFTAR GAMBAR

Hal

“Halaman ini sengaja dikosongkan”

DAFTAR LAMPIRAN

Hal

“Halaman ini sengaja dikosongkan”

DAFTAR SIMBOL

x_{DS10}	Jumlah pesawat berangkat rute domestik periode siang melalui *runway* 10
x_{DS28}	Jumlah pesawat berangkat rute domestik periode siang melalui *runway* 28
x_{DM10}	Jumlah pesawat berangkat rute domestik periode malam melalui *runway* 10
x_{DM28}	Jumlah pesawat berangkat rute domestik periode malam melalui *runway* 28
y_{DS10}	Jumlah pesawat tiba rute domestik periode siang melalui *runway* 10
y_{DS28}	Jumlah pesawat tiba rute domestik periode siang melalui *runway* 28
y_{DM10}	Jumlah pesawat tiba rute domestik periode malam melalui *runway* 10
y_{DM28}	Jumlah pesawat tiba rute domestik periode malam melalui *runway* 28
x_{InS10}	Jumlah pesawat berangkat rute internasional periode siang melalui *runway* 10
x_{InS28}	Jumlah pesawat berangkat rute internasional periode siang melalui *runway* 28
x_{InM10}	Jumlah pesawat berangkat rute internasional periode malam melalui *runway* 10
x_{InM28}	Jumlah pesawat berangkat rute internasional periode malam melalui *runway* 28
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y_{InS28}	Jumlah pesawat tiba rute internasional periode siang melalui *runway* 28

y_{InM10}	Jumlah pesawat tiba rute internasional periode malam melalui *runway* 10
y_{InM28}	Jumlah pesawat tiba rute internasional periode malam melalui *runway* 28
Ldn	Tingkat kebisingan siang dan malam
P_A	Luas daerah A
NEL_i	Kebisingan yang diijinkan
LWP	*Level Weighted Population* (bobot kebisingan kumulatif)
$Ptotal$	Luas daerah yang terpapar kebisingan

BAB I
PENDAHULUAN

Pada bab ini, akan dijelaskan mengenai latar belakang masalah, perumusan masalah, batasan masalah, tujuan tugas akhir, dan manfaat tugas akhir.

1.1. Latar Belakang Masalah

Kegiatan penerbangan bermesin di dunia sudah sejak lama dilakukan. Seiring berjalannya waktu dunia penerbangan semakin berkembang. Perkembangan ini juga secara otomatis diikuti oleh pertumbuhan pembangunan bandara di berbagai kota di berbagai negara maju maupun berkembang. Di Indonesia terdapat 296 bandara, baik bandara domestik maupun internasional yang masing-masing dikelola oleh berbagai pihak [1]. Bandar Udara Juanda Surabaya merupakan bandara kedua tersibuk di Indonesia setelah Bandara Soekarno Hatta. Kesibukan bandara akibat aktifitas pesawat ini tentu berdampak pada lingkungan sekitar diantaranya polusi udara seperti polusi gas CO, CO_2, hidrokarbon dan partikel lain, tata guna lahan, polusi suara yaitu kebisingan dan lainnya. Dalam lima tahun terakhir di Bandara Juanda, jumlah penerbangan mengalami kenaikan rata-rata 6,3% per tahun dan jumlah penumpang mengalami kenaikan rata-rata 7,7% per tahun. Pada tahun 2016 terdapat 33.997 jumlah pergerakan pesawat, jumlah tersebut naik dari 28.866 pergerakan pada 2015 atau naik sebesar 17,78% [2]. Dengan reputasi bandara seperti disebutkan diatas Bandara Juanda telah dilalui berbagai jenis pesawat. Banyaknya pesawat yang *landing* dan *take off* di Bandara Juanda mengakibatkan semakin tinggi tingkat kebisingan. Pertambahan luas dan daya tampung suatu bandara mempengaruhi jumlah pesawat dan jumlah rute komersial yang dioperasikan. Kebisingan pada bandara disebabkan oleh pengoperasian *landing*, *take-off*, dan

dapat juga disebabkan oleh himpunan kebisingan lain yang tidak terpisahkan.

Gangguan secara umum didefinisikan sebagai ketidaknyamanan fisik maupun psikis yang disebabkan oleh kebisingan dan gangguan lain pada kegiatan yang berbeda. Gangguan psikologis akibat kebisingan tergantung pada intensitas, frekuensi, periode, saat dan lama kejadian, kompleksitas kegaduhan dan tidak teraturnya suara kebisingan [3]. Peningkatan jumlah penerbangan pada Bandara Juanda berpotensi meningkatkan tingkat kebisingan. Dengan kondisi kebisingan yang setiap saat didengar atau durasi yang relatif lama tentu membahayakan pendengaran masyarakat maupun petugas. Besarnya dampak kebisingan pada fisik dan psikis manusia, mengakibatkan kebisingan menjadi salah satu masalah yang perlu diperhatikan saat ini. Dalam upaya mengatasi kebisingan yang tak terkendali dan terus-menerus perlu adanya pengoptimalan atau meminimalkan kebisingan agar tidak menganggu pendengar. Ambang batas kebisingan yang diperbolehkan dibuang ke lingkungan pemukiman adalah 55dB. Pemerintah maupun organisasi di berbagai belahan dunia memakai cara yang berbeda untuk mengukur kebisingan. *The Federal Highway Administration* (FHWA), *Federal Aviation Administration* (FAA), *Occupational Safety and Health Administration* (OSHA), dan *Environmental Protection Agency* (EPA) memiliki metode yang berbeda dalam mengukur kebisingan. Terdapat dua jenis pembobotan kebisingan yang paling umum digunakan dalam pengukuran yaitu, jenis pembobotan A dan jenis pembobotan C. Jenis Pembobotan A adalah pengukuran kebisingan yang digunakan dalam peraturan Menteri Perhubungan. *A-weighted sound level* atau tingkat kebisingan terbobot A selanjutnya disebut dB(A) adalah tingkat kebisingan maksimum yang dibaca dalam skala A [4]. Pada Tugas

Akhir ini penulis menggunakan jenis pembobotan A karena pembobotan A mirip dengan respon manusia terhadap frekuensi suara.

Tugas Akhir ini membahas mengenai model kebisingan pada daerah sekitar Bandara Juanda dan bagaimana meminimalkan kebisingan tersebut dengan mengoptimalkan jumlah pesawat terhadap lintasan *landing* maupun *take off* dan menjadwalkan pesawat berdasarkan lintasan kedatangan dan keberangkatan pesawat. Fungsi objektif dari model matematika tersebut akan diminimumkan pada total populasi ganguan yang mengakibatkan kebisingan. Solusi pada Tugas Akhir ini akan direpresentasikan berdasarkan hasil perhitungan gradien dan *linier programming* dan akan dilakukan simulasi pada MATLAB.

1.2. Rumusan Masalah

Berdasarkan latar belakang diatas, maka rumusan masalah yang akan dibahas dalam Tugas Akhir ini adalah bagaimana meminimalkan kebisingan di daerah sekitar Bandara Juanda dengan membatasi jumlah penerbangan komersial.

1.3. Batasan Masalah

Berdasarkan permasalahan diatas, adapun batasan masalah dari pengerjaan Tugas Akhir ini adalah sebagai berikut :

1. Model kebisingan sesuai dengan waktu pengambilan sampel, yaitu hari Kamis dan Jumat mewakili hari kerja dan Sabtu mewakili hari libur;
2. Penerbangan yang diteliti adalah penerbangan komersial;
3. Jadwal penerbangan bergantung pada jenis penerbangan (domestik dan internasional), periode penerbangan (siang dan malam);

4. Lintasan penerbangan atau *runway* menjadi pilihan saat penjadwalan penerbangan

1.4. Tujuan

Tujuan dalam penulisan Tugas Akhir ini adalah untuk meminimalkan kebisingan di sekitar Bandara Juanda Surabaya.

1.5. Manfaat Penelitian

Manfaat yang bisa diperoleh dari Tugas Akhir ini adalah :

1. Manfaat teoritis dari Tugas Akhir ini adalah memberikan data primer kebisingan yang diakibatkan oleh aktifitas pesawat disekitar Bandara Juanda dan meminimalkan kebisingan tersebut
2. Memberikan evaluasi bagi keberadaan bandara dan masukan bagi pengelola Bandar Udara Juanda mengenai kebisingan yang diakibatkan aktifitas pesawat
3. Bagi akademisi, Tugas Akhir ini dapat digunakan sebagai bahan pembelajaran mengenai model kebisingan akibat aktifitas pesawat di Bandara Juanda Surabaya

1.6. Sistematika Penulisan

Penulisan Tugas Akhir ini disusun dalam lima bab. yaitu :

1. BAB I PENDAHULUAN

   Bab ini berisi tentang gambaran umum dari penulisan Tugas Akhir yang meliputi latar belakang, rumusan masalah, tujuan, manfaat, dan sistematika penulisan.

2. BAB II TINJAUAN PUSTAKA

   BAB II berisi tentang defenisi, teori-teori, penelitian sebelumnya yang terkait permasalahan dalam Tugas Akhir ini. Beberapa teori yang dibahas dalam bab ini adalah

defenisi gangguan dan kebisingan, peraturan tentang kebisingan, penyebab kebisingan dan model matematika awal.

3. BAB III METODE PENELITIAN
Pada BAB III dijelaskan langkah-langkah yang dilakukan dalam pengerjaan Tugas Akhir. Adapun langkah-langkah tersebut adalah studi literatur, mengkaji model Les Frair dan optimalisasi kebisingan, pengambilan data, pengolahan data dan penarikan kesimpulan.

4. BAB IV ANALISIS DAN PEMBAHASAN
Dalam BAB IV dijelaskan secara detail pengolahan data awal, penurunan model matematika, batasan-batsan penerbangan, nilai optimal, dan penjadwalan penerbangan sebagai hasil akhir.

5. BAB V PENUTUP
Bab V berisi kesimpulan dari hasil pembahasan pada BAB IV dan saran untuk pengembangan penelitian berikut.

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BAB II
TINJAUAN PUSTAKA

2.1. Definisi Bunyi dan Kebisingan

Bunyi adalah gelombang mekanis elastik longitudinal yang berjalan sehingga pada perambatannya membutuhkan medium rambat. Gelombang bunyi terdiri dari molekul-molekul udara yang bergerak maju dan mundur. Molekul-molekul tersebut bergerak setiap saat mengakibatkan desakan atau mampatan dan regangan. Desakan oleh molekul udara mengakibatkan tekanan yang tinggi dan sebaliknya regangan mengakibatkan tekanan yang rendah [3][5]. Manusia dapat mendengar bunyi ketika gelombang bunyi sampai ke telinga manusia. Gelombang bunyi yang dapat didengar manusia adalah bunyi dengan frekuensi 20Hz-20kHz. Bunyi dengan frekuensi dibawah 20Hz disebut *infrasonik* dan bunyi dengan frekuensi diatas 20kHz disebut dengan *ultrasonik*. Bunyi dapat menimbulkan respon fisiologis namun tidak semua bunyi dapat menimbulkan respon yang sama.

Kebisingan adalah bunyi yang tidak dikehendaki karena tidak sesuai dengan ruang dan waktu sehingga dapat menimbulkan gangguan terhadap kenyamanan dan kesehatan manusia [6][7]. Menurut Keputusan Menteri Lingkungan Hidup No. 48 tahun 1996, kebisingan adalah bunyi yang tidak diinginkan dari usaha atau kegiatan dalam tingkat dan waktu tertentu yang dapat menimbulkan gangguan kesehatan manusia dan kenyamanan lingkungan. Tingkat kebisingan adalah ukuran energi bunyi yang dinyatakan dalam satuan Desibel disingkat dB [8].

2.1.1. Peraturan Terkait Kebisingan

Baku tingkat kebisingan adalah batas maksimal tingkat kebisingan yang diperbolehkan dibuang ke lingkungan dari usaha

atau kegiatan sehingga tidak menimbulkan gangguan kesehatan manusia dan kenyamanan lingkungan [8]. Berdasarkan peraturan Pemerintah yang diatur dalam keputusan Mentri Negara Lingkungan Hidup Kep 48/MENLH/11/1996 baku mutu kebisingan pada area pemukiman, sekolah dan rumah sakit adalah 55db(A), baku mutu pada fasilitas umum adalah 60db(A), baku mutu pada perdagangan dan perkantoran adalah 65db(A), baku mutu pada area perdagangan, industri dan rekreasi adalah 70db(A). Sedangkan baku mutu pada area khusus seperti pelabuhan, bandar udara, dan stasiun kereta adalah 85db(A). Nilai ambang batas kebisingan maksimum pada lingkungan kerja adalah 85dB(A) [9].

2.1.2. Sumber Kebisingan Pesawat Terbang

Suara yang diakibatkan oleh pesawat terbang menghasilkan kebisingan yang kompleks. Terdapat empat hal yang menimbulkan kebisingan: (1) kebisingan jet: gabungan antara kecepatan udara yang dilepaskan melalui knalpot dan udara luar; (2) kebisingan akibat pembakaran : gabungan pembakaran bahan bakar dan pelepasan energi; (3) mesin turbo; (4) kebisingan aerodinamik : kebisingan akibat kecepatan aliran udara yang melewati badan pesawat [10]. Kebisingan terbesar diakibatkan oleh semburan gas buang yang panas dan memiliki kecepatan tinggi yang bergesekan dan bergabung dengan udara yang lebih dingin dan kecepatan rendah. Semakin besar perbedaan kecepatan dan suhu udara yang bergesekan, semakin tinggi kebisingan yang diakibatkan. Telah banyak usaha yang dilakukan dalam upaya mengurangi kebisingan. Teknologi baru telah berhasil mengurangi kebisingan yang diakibatkan oleh mesin jet secara signifikan yaitu dengan memodifikasi saluran gas buang agar dihasilkan gas buang dengan udara yang lebih dingin. Tetapi hal ini ternyata hal ini

mengurangi efisiensi mesin dan meningkatkan konsumsi bahan bakar.

Pada mesin jet yang kemudian disebut turbojet, udara masuk dimampatkan oleh kompresor, lalu bercampur dengan gas kemudian dikeluarkan sebagai semburan gas panas dengan kecepatan tinggi untuk mendorong pesawat. Perkembangan teknologi mengubah turbojet menjadi turbofan dimana perbedaannya terletak pada adanya kipas (*fan*). Fan pada turbofan diletakkkan didepan mesin jet yang berfungsi untuk meniup udara ke sekeliling sisi luar mesin jet (*airflow bypass*). Hal ini mengakibatkan udara kipas yang lebih lambat dan dingin menyelimuti dan bercampur dengan udara mesin hisap yang lebih cepat dan panas. Proses ini mendahului pencampuran dengan udara luar, sehingga gesekan semburan udara yang dihasilkan lebih kecil. Kebisingan yang kemudian timbul adalah kebisingan oleh kecepatan kipas (*fan*) [5]. Pada Tugas Akhir ini tidak dibahas lebih jauh mengenai kebisingan pada pesawat terbang, akan tetapi kebisingan yang ditimbulkan oleh pengoperasian pesawat yang berdampak bagi pendengar.

2.1.3. Respon Manusia Terhadap Kebisingan

Perlakuan yang diberikan kepada manusia tidak selalu memberikan reaksi atau respon yang sama. Demikian halnya ketika perlakuan berupa kebisingan yang diterima oleh manusia tentu tidak akan memberikan respon yang sama. Sehingga lebih sulit mengukur atau mengidentifikasi reaksi manusia terhadap kebisingan dibanding mengukur kebisingan yang dialami. Keberadaan kebisingan di sekitar manusia adalah relatif sehingga secara subjektif sulit dikatakan bahwa kebisingan adalah sesuatu yang menganggu. Perbedaan respon manusia terhadap kebisingan terjadi berdasarkan pada kebisingan yang didengar sebelumnya,

keadaan fisiologis (kesehatan) pendengar, dan aktifitas yang sedang dilakukan. Kondisi pendengar tersebut memunculkan pernyataan bahwa anggapan bising adalah subjektif [7].

Secara umum terdapat dua dampak kebisingan pada masyarakat yaitu: dampak pada tingkah laku manusia (gangguan komunikasi, gangguan beraktifitas) dan dampak fisiologis (gangguan pendengaran). Dampak lain yang juga timbul akibat kebisingan terus-menerus adalah gangguan ketika tidur, gangguan berkomunikasi, gangguan pada tata guna lahan. Tingkat kebisingan berdasarkan dB(A) yang didengar oleh telinga manusia dan aktifitas yang terjadi pada tingkat dB tertentu direpresentasikan dalam Tabel 1.1 [11]. Klasifikasi tingkat kebisingan yang didengar oleh manusia juga direpresentasikan dalam Tabel 1.1.

Tabel 1.1. Hubungan kondisi kebisingan dan pengaruhnya pada pedengaran manusia

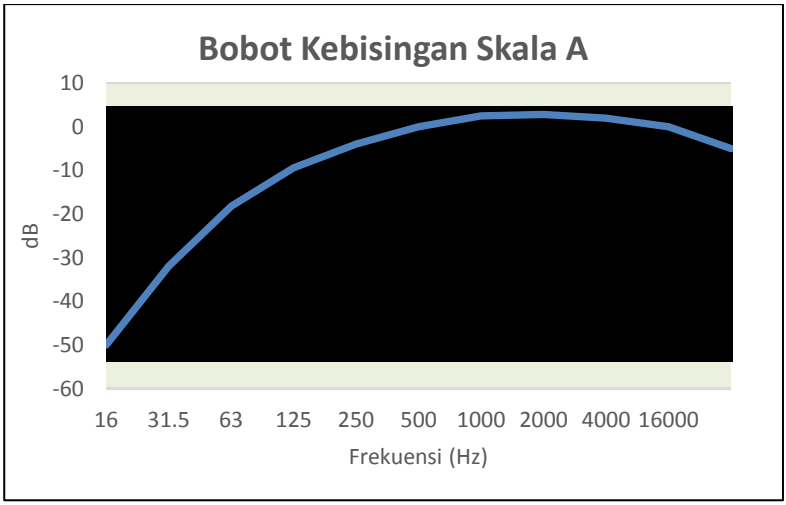
Sumber : Luke Air Force Base, US, 2012

Skala kebisingan dB(A)	**Tingkat Kebisingan**	**Aktifitas/kondisi yang berlangsung**
20	Lemah	Senyap
30		Kondisi berbisik (pada perpustakaan)
40		Bunyi mesin pendingin
50	Sedang	Bunyi gerimis
60	Keras	Bunyi mesin cuci
70		Kondisi jalan raya, seperti bunyi mesin kendaraan
80	Sangat Keras	Suara teriakan, bising pabrik, bising restoran
90		Suara mesin pemotong rumput, bising jalan raya
100		Helikopter
110	Luar biasa Keras	Suara pengering salju
120		Konser musik rock
130		Mesin jet pada ketinggian 100 kaki
140	Menyakitkan pada pendengaran	Ledakan bom

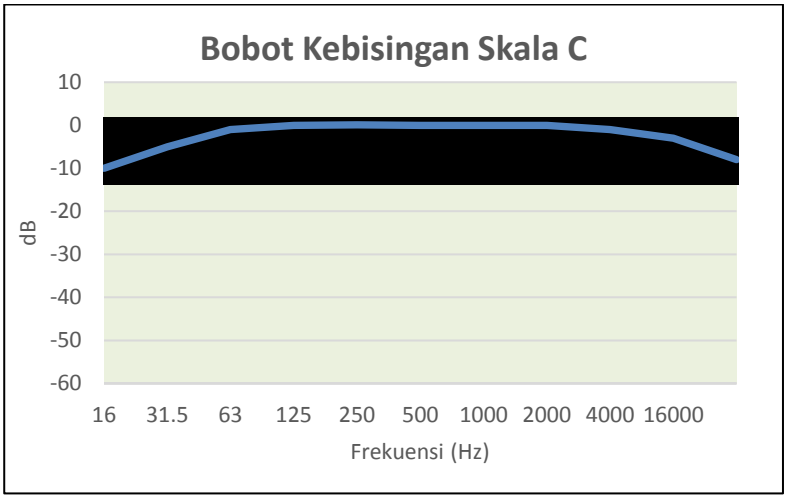
2.2. Bobot Kebisingan

Salah satu masalah dalam pengembangan pengukuran kebisingan di area bandara adalah pembuatan skema yang menunjukkan apakah suatu bunyi atau suara yang terukur dapat diterima sebagai suatu kebisingan atau tidak. Untuk itu diperlukan satuan berupa alat yang tidak subjektif dalam menilai sutu bunyi. Alat yang paling umum digunakan untuk mengukur bunyi adalah *sound level meter*. *Sound level meter* mengukur keseluruhan frekuensi suara atau bunyi yang diterima. Ukuran ini memberikan suatu hasil pengukuran yang sesuai dengan keadaan kebisingan sebenarnya yang diakibatkan oleh berbagai jenis sumber bunyi. Terdapat dua (2) jenis satuan pengukuran bunyi yang sering digunakan dalam penelitian, yaitu pengukuran C dan A. Pengukuran kebisingan C terbobot tidak mirip dengan pendengaran manusia terhadap bising karena pengukuran C terbobot sensitif pada suara dengan frekuensi tinggi saja, grafik dapat dilihat pada Gambar 2.1. dan Gambar 2.2. Pengukuran bunyi yang lebih mirip dengan pendengaran manusia adalah pengukuran kebisingan A terbobot atau biasa disebut dengan *A-level*. Pengukuran ini diukur dalam satuan desibel dB(A) dan kemudian akan digunakan dalam Tugas Akhir ini [7] [12]. Hubungan frekuensi dan tingkat kebisingan yang diukur oleh satuan dB(A) dan dB(C) digambarkan dalam grafik pada Gambar 2.1. dan Gambar 2.2.

Noise Exposure Level adalah tingkat kebisingan yang boleh dipaparkan ke lingkungan selama periode tertentu. Pada pembahasan 2.1.1. mengenai peraturan kebisingan, telah disebutkan tingkat kebisingan berdasarkan kegunaan lahan. Lahan yang terpapar kebisingan pada Tugas Akhir ini adalah lingkungan sekolah dan pemukiman, sehingga *Noise Exposure Level (NEL)* dalam hal ini sebesar 55dB.



Gambar 2.1. Grafik hubungan pengukuran A terbobot dengan Frekuensi



Gambar 2.2. Grafik hubungan pengukuran C terbobot dengan Frekuensi

Kebisingan yang terukur pada daerah dan waktu tertentu dilambangkan dengan L dengan skala kebisingan dB(A). L adalah kebisingan yang direpresentasikan hanya pada saat waktu pengukuran sehingga disebut sebagai kebisingan tunggal. Dengan data nilai L selama satu hari kebisingan tingkat L dapat diubah agar merepresentasikan kebisingan yang terjadi selama siang dan malam dengan Lsm. Nilai Lsm dirumuskan sebagai berikut :

$$Lsm = 10\,Log\,(1/24)\sum_{i=1}^{n} 10^{0,1L_i} \tag{2.1}$$

dengan :

L_i tingkat kebisingan hasil pengukuran pada waktu i

Pola kebisingan yang terjadi terus-menerus disebut dengan tingkat kebisingan tidak tunggal atau *noise exposure.* Persamaan yang menggambarkan hubungan jumlah penerbangan dengan tingkat kebisingan dirumuskan dalam *Noise Exposure* (NE). NE dirumuskan sebagai berikut :

$$NE = 10log\left[(D + E + cN)10^{EL/10}\right] - p \tag{2.2}$$

dengan :

D, E, N jumlah penerbangan masing-masing pada pagi, siang dan malam

c faktor bobot (NEF=16.7 dan Ldn=10)

EL paparan kebisingan yang terjadi ($EPNL$ untuk NEF atau NEL untuk Ldn)

p 88,0 untuk NEF dan 49,4 untuk Ldn

Noise exposure dapat digunakan untuk menghitung nilai Ldn maupun NEF. Ldn adalah pengukuran kebisingan berdasarkan periode penerbangan.

2.3. Penelitian Terdahulu

Penelitian yang dilakukan oleh Les Frair pada tahun 1983 meyatakan bahwa kebisingan pada bandara disebabkan oleh kumpulan kebisingan yang kemudian dihitung dengan *NEF (Noise Exposure Forecast)*. Dalam menciptakan layanan yang baik pada bandara harus dilakukan batasan pada jumlah pesawat yang beroperasi berdasarkan tipe, landasan take off dan landing, dan waktu penerbangan. Indeks dampak kebisingan adalah perbandingan keadaan kebisingan suatu daerah dengan daerah lain. Penelitian Les Frair mengasumsikan suatu bandara, sehingga tidak mengaplikasikan modelnya pada suatu studi kasus.[7]

Pada tahun 2008, Mohammad Chaeran melakukan penelitian mengenai kajian kebisingan akibat aktifitas pesawat di bandara dengan studi kasus Bandara Ahmad Yani Semarang. Pada penelitiannya, Chaeran mengukur dan mengevaluasi kebisingan akibat aktifitas pesawat di dalam Bandara dan mengkaji dampak kebisingan terhadap responden. Responden dalam penelitian Chaeran adalah karyawan yang bekerja di Bandara dan masyarakat di sekitar bandara. Data tingkat kebisingan diperoleh berdasarkan hasil pengukuran kemudian dihitung menggunakan persamaan sesuai dengan Kep 48/MENLH/11/1996, 25 Nopember 1996 yaitu:

$$Ls = 10\,Log\,(1/16)\,(T1.10^{0,1L1} + \ldots + T4.10^{0,1L4})\,dB(A)$$

$$Lm = 10\,Log\,(1/8)\,(T5.10^{0,1L5} + \ldots + T7.10^{0,1L7})\,dB(A)$$

Evaluasi kebisingan dilakukan dengan menghitung Lsm digunakan untuk mengetahui apakah tingkat kebisingan pada siang dan malam melebihi baku mutu tingkat kebisingan. Metode evaluasi ini ditetapkan dengan toleransi 3 dB(A)[3].

Kebisingan pada Bandara Soekarno Hatta dipetakan oleh Fahmi Barry Primanda pada tahun 2012. Pada penelitian tersebut Fahmi memetakan kebisingan berdasarkan nilai Leq dan WECPNL yang diukur pada empat titik disekitar bandara selama tiga hari

yaitu 24 jam dalam sehari. Fahmi juga memetakan kebisingan dengan menggunakan Integrated Noise Model (INM) sebagai perbandingan dengan hasil pengukuran pada lapangan [5].

2.4. Gambaran Umum Bandar Udara Juanda

Bandara Juanda (SUB) merupakan salah satu Bandara Internasional di Indonesia. Bandara ini terletak 20 km di sebelah selatan pusat kota Surabaya, tepatnya terletak di Kabupaten Sidoarjo. Saat ini, Bandara Juanda beroperasi dibawah kendali PT. Angkasa Pura I. Bandara Juanda berdiri diatas lahan seluas $51.500\ m^2$ dengan panjang landasan mencapai 3 km. Terdapat tiga terminal di bandara ini, yaitu terminal domestik, terminal internasional, dan terminal kargo. Pada tahun 2013 Bandara Juanda tidak mampu menampung penumpang yang mencapai 17.000.000 pertahun, dimana kapasitas Bandara Juanda adalah 6.000.000 pertahun. Untuk mengatasi jumlah penumpang yang terus bertambah, terminal 2 kemudian dibuka pada tahun 2014 dengan kapasitas 6.000.000 penumpang pertahun. Terminal 1 Bandara Juanda terletak di sebelah utara landasan pacu dan terminal 2 berada di sebelah selatan landasan pacu.

Terminal 1 dibagi menjadi 2 sub terminal, terminal 1A dan 1B. Dalam 24 jam operasi, jumlah pengoperasian pesawat mencapai 300 penerbangan di terminal 1 dan 2. Berbagai macam maskapai beroperasi di Bandara Juanda Surabaya. Terminal 1 lebih sering digunakan untuk melayani penerbangan domestik dan terminal 2 lebih banyak melayani penerbangan internasional.

"Halaman ini sengaja dikosongkan"

BAB III
METODOLOGI PENELITIAN

Bagian ini menjelaskan metode pengerjaan yang digunakan dalam Tugas Akhir, sekaligus sebagai panduan dalam pengerjaan Tugas Akhir. Proses pengerjaan terdiri dari 5 tahap, yaitu studi literatur, mengkaji model Les Frair dan optimalisasi kebisingan, pengambilan data, pengolahan data, dan penarikan kesimpulan. Tahapan pengerjaan tersebut direpresentasikan dalam gambar 3.1.

3.1. Studi Literatur

Pada tahap ini dilakukan identifikasi permasalahan dan tujuan dari Tugas Akhir. Permasalahan yang diselesaikan dalam Tugas Akhir ini adalah kebisingan yang terjadi akibat aktifitas pesawat pada Bandar Udara Juanda melebihi ambang batas kebisingan. Kebisingan yang terjadi di daerah sekitar Bandar Udara Juanda akan diminimumkan dengan menggunakan optimalisasi fungsi tujuan Les Frair. Setelah melakukan perumusan permasalahan dan tujuan kemudian dilakukan studi literature terhadap jurnal-jurnal ilmiah, *e-book*, buku, serta referensi lain yang mendukung penyelesaian permasalahan diatas.

3.2. Mengkaji model Les Frair dan optimalisasi

Pada tahap ini penulis mengkaji model yang digunakan untuk meminimumkan kebisingan. Pada model Les Frair, terdapat fungsi tujuan terhadap Ldn yang akan diminimumkan. Pengaruh jumlah pesawat dan Ldn atau tingkat kebisingan pada siang dituliskan dalam s yaitu jumlah pesawat yang beroperasi pada siang dan malam selama satu hari. Hal ini mengakibatkan fungsi tujuan berubah dari fungsi terhadap Ldn menjadi fungsi terhadap

S. Selanjutnya fungsi tujuan didekati dengan Taylor lalu diminimumkan.

3.3. Pengumpulan data

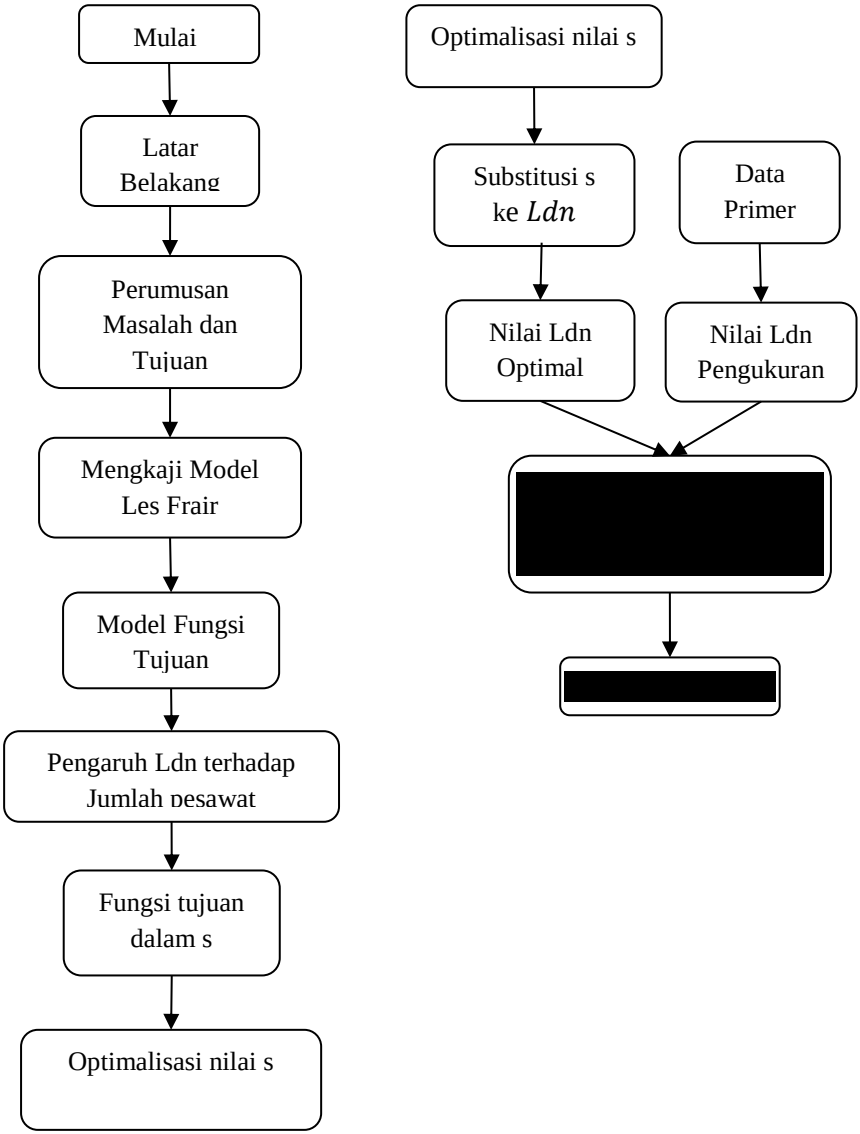
Pengumpulan data dilakukan untuk mendapatkan data yang diperlukan dalam pengerjaan Tugas Akhir. Data yang digunakan adalah data primer yaitu tingkat kebisingan yang diperoleh dari hasil pengukuran menggunakan *Sound Level Meter*, jumlah pesawat yang beroperasi di Bandar Udara Juanda Surabaya, dan peta lokasi Bandar Udara. Data tingkat kebisingan diambil dalam tiga (3) hari pada minggu yang sama, yaitu hari Kamis untuk mewakili hari kerja dan hari Jumat dan Sabtu untuk mewakili hari libur.

3.4. Pengolahan Data

Pada tahap ini dilakukan pengolahan data pada tingkat kebisingan hasil pengukuran untuk mendapatkan nilai Ldn.

3.5. Analisis Hasil dan Kesimpulan

Hasil optimalisasi kebisingan dianalisa ada tidaknya perbedaan sebelum dan sesudah dioptimalkan. Selanjutnya akan dilakukan penarikan kesimpulan berdasarkan hasil penelitian.



Gambar 3.1. Diagram Alir Pengerjaan

"Halaman ini sengaja dikosongkan"

BAB IV
ANALISIS DAN PEMBAHASAN

4.1. Gambaran Lokasi Penelitian

Pengukuran kebisingan dilakukan pada tiga (3) titik pengukuran. Pemilihan lokasi pengukuran ini didasarkan pada pendekatan lokasi pengukuran kebisingan pesawat oleh *International Civil Aviation Organization* (ICAO) pada dokumen Annex 16 Volume 1. Tiga titik yang dimaksud dalam dokumen tersebut yaitu : 1. Titik sejajar landasan yang berjarak 450 m dari garis tengah landasan dan merupakan perpanjangan dari batas lepas landas, atau biasa disebut lateral full-power point; 2. Titik dari perpanjangan garis tengah landasan pada jarak 6,5 km atau disebut titik referensi terbang atau flyover reference point; 3. Titik referensi kedatangan atau approach reference point merupakan titik dari perpanjangan garis tengah landasan berjarak 2 km dari batas pendaratan.

4.2. Fluktuasi Kebisingan

Pengukuran kebisingan dilakukan selama tiga hari, untuk mewaliki tingkat kebisingan pada hari kerja maka dipilih Kamis dan Jumat sedangkan untuk mewaliki kebisingan pada hari libur dipilih hari Sabtu. Berdasarkan hasil pengukuran kebisingan di tiga (3) titik yang telah ditentukan, diperoleh tingkat kebisingan maksimum pada masing-masing periode seperti pada tabel, hasil pengukuran terlampir pada bagian lampiran. Dengan menggunakan persamaan (2.1) didapatkan nilai Ldn pada masing-masing lokasi pengukuran sebagai berikut :

Tabel 4.1. Fluktuasi Tingkat Kebisingan Hari Ke 1

No	Periode	Tingkat Kebisingan (dB)			Jumlah Pesawat
		Lokasi 1	Lokasi 2	Lokasi 3	
1	03:01-06:00	74.8	77.5	82.7	13
2	06:01-09:00	98	84.1	91	69
3	09:01-11:00	86.6	83.1	84.4	33
4	11:01-14:00	83.2	85.6	88.6	69
5	14:01-17:00	84.2	88.3	89.2	71
6	17:01-20:00	82.3	92.6	87.6	74
7	20:01-22:00	89.6	92.1	100.3	26
8	22:01-03:00	77	85.7	80.5	1
Lsm		73.73	71.78	76.15	356

Tabel 4.2. Fluktuasi Tingkat Kebisingan Hari Ke 2

No	Periode	Tingkat Kebisingan (dB)			Jumlah Pesawat
		Lokasi 1	Lokasi 2	Lokasi 3	
1	03:01-06:00	79	76.1	81.8	13
2	06:01-09:00	89.7	89.7	86.9	78
3	09:01-11:00	80	85.7	93.7	48
4	11:01-14:00	84	98	92.2	69
5	14:01-17:00	80	88.2	93.5	59
6	17:01-20:00	85.7	97.5	98.6	57
7	20:01-22:00	96.5	85.5	83.9	54
8	22:01-03:00	75	92	88.9	5
Lsm		72.18	76.18	75.97	383

Tabel 4.3. Fluktuasi Tingkat Kebisingan Hari Ke 3

No	Periode	Tingkat Kebisingan (dB)			Jumlah Pesawat
		Lokasi 1	Lokasi 2	Lokasi 3	
1	03:01-06:00	83.4	81.3	87.6	15
2	06:01-09:00	88.6	92.9	95.5	76
3	09:01-11:00	88.5	87.3	93.7	51
4	11:01-14:00	82	90.5	91.3	61
5	14:01-17:00	83.3	92.5	93.4	79
6	17:01-20:00	92	94.6	96.7	78
7	20:01-22:00	94.2	92.6	94.4	48
8	22:01-03:00	78.7	92.6	80.3	19
Lsm		71.70	74.50	76.14	427

4.3. Pemodelan Fungsi Tujuan

Pada Tugas Akhir ini, kebisingan yang terjadi direpresentasikan dalam Ldn. Persamaan (2.2) kemudian dituliskan dalam Ldn sebagai berikut :

$$Ldn = 10log\left[(D + E + cN)10^{EL/10}\right] - 49{,}4$$

Jumlah pesawat pada siang, sore, dan malam atau disimbolkan dengan D, E, N akan disubstitusi dengan simbol yang merepresentasikan jumlah pesawat tiba dan berangkat sehingga membentuk model matematika. Dengan melalukan substitusi

$D + E = x_{jS10} + x_{jS28} + y_{jS10} + y_{jS28}$; dan

$N = x_{jM10} + x_{jM28} + y_{jM10} + y_{jM28}$

diperoleh persamaan (4.1) dimana j adalah jenis penerbangan, domestik dan internasional.

$$Ldn = 10\,log\left(\sum_{j=1}^{2}\left(x_{jS10} + x_{jS28} + 10\left(x_{jM10} + x_{jM28}\right)\right)10^{\frac{NEL}{10}} + \left(y_{jS10} + y_{jS28} + 10\left(y_{jM10} + y_{jM28}\right)\right)10^{\frac{NEL}{10}}\right) - 49.4. \quad (4.1)$$

Tingkat kebisingan, Ldn mempunyai bobot kebisingan. Berdasarkan referensi 7, bobot kebisingan yang terjadi dirumuskan dalam fungsi berikut [7].

$$W(Ldn) = \frac{[3.364\times10^{-6}][10^{0.03Ldn}]}{[0.2][10^{0.03Ldn}] + [1.43\times10^{-4}][10^{0.08Ldn}]}. \quad (4.2)$$

Pada model Les Frair, kebisingan dipresentasikan dalam fungsi bobot kebisingan, $W(Ldn)_A$. Nilai minimum kebisingan bergantung pada fungsi bobot kebisingan. Optimalisasi dilakukan dengan meminimukan fungsi bobot, yang kemudian dirumuskan menjadi tujuan. Fungsi tujuan pada Tugas Akhir ini bergantung pada bobot kebisingan. Hubungan antara bobot kebisingan dengan jumlah pesawat dibahas pada bagian berikut. Fungsi objektif dirumuskan sebagai berikut :

$$Z = \sum_{A=1}^{n} W(Ldn)_A \frac{P_A}{P} \quad , \quad (4.3)$$

dengan :

$W(Ldn)_A$	bobot kebisingan pada daerah A
P_A	luas daerah A
P	luas daerah total

4.3.1. Fungsi Tujuan

Fungsi tujuan pada persamaan (4.3) mempunyai penyelesaian pada fungsi $W(Ldn)_A$, dimana $W(Ldn)_A$ bergantung pada Ldn. Berikut ini disimbolkan S_A untuk mempermudah penulisan solusi optimal pada bagian selanjutnya.

$$S_A = \left(\sum_{j=1}^{2} \left(x_{jS10} + x_{jS28} + 10\left(x_{jM10} + x_{jM28} \right) \right) 10^{\frac{NEL}{10} - 4.94} + \left(y_{jS10} + y_{jS28} + 10(y_{jM10} + y_{jM28}) \right) 10^{\frac{NEL}{10} - 4.94} \right). \tag{4.4}$$

Dari persamaan (4.1) dan (4.4) didapatkan :

$$Ldn = 10\log(S_A) \tag{4.5}$$

dengan substitusi persamaan (4.2) dan (4.5) diperoleh persamaan fungsi tujuan yang akan dioptimalkan.

$$Z = \sum_{A=1}^{n} \frac{P_A}{P} \frac{3{,}364 \times 10^{-6} {S_A}^{1{,}03}}{0{,}02 {S_A}^{0.3} + 1{,}43 \times 10^{-4} {S_A}^{0.8}}. \tag{4.6}$$

4.3.2. Kondisi Batas

Tingkat kebisingan yang diinginkan memiliki kaitan dengan kondisi lingkungan pada suatu bandara. Terdapat beberapa kondisi yang kemudian menjadi kondisi batasan. Kondisi bandara seperti batas penerbangan perhari, batas penggunaan *runway*, dan jenis penerbangan menjadi batasan yang digunakan dalam Tugas Akhir ini. Adapun batas-batas penerbangan tersebut disusun berdasarkan :

1. Jumlah pesawat yang beroperasi dalam satu hari
2. Jumlah pesawat yang beroperasi selama periode siang dan malam
3. Jenis penerbangan yaitu penerbangan domestik dan penerbangan internasional
4. *Runway* atau jalur lintasan *take off* dan *landing* yang digunakan

Batasan-batasan diatas diperoleh dari data penerbangan pada Bandara Juanda. Secara matematis, batas-batas diatas dirumuskan dalam persamaan (4.7) hingga (4.15). Berdasarkan rata-rata jumlah penerbangan domestik selama satu hari, persamaan batas dirumuskan

$$x_{DS10} + x_{DS28} + x_{DM10} + x_{DM28} + y_{DS10} + y_{DS28} + y_{DM10} + y_{DM28} \leq 348 \quad (4.7)$$

Berdasarkan rata-rata jumlah penerbangan internasional selama satu hari, persamaan batas dirumuskan

$$x_{InS10} + x_{InS28} + x_{InM10} + x_{InM28} + y_{InS10} + y_{InS28} + y_{InM10} + y_{InM28} \leq 35 \quad (4.8)$$

Berdasarkan rata-rata jumlah penerbangan selama periode siang, persamaan batas dirumuskan

$$x_{DS10} + x_{DS28} + x_{InS10} + x_{InS28} + y_{DS10} + y_{DS28} + y_{InS10} + y_{InS28} \leq 341 \quad (4.9)$$

Berdasarkan rata-rata jumlah penerbangan selama periode malam, persamaan batas dirumuskan

$$y_{InS10} + y_{InS28} + x_{InM10} + x_{InM28} + y_{DM10} + y_{DM28} + y_{InM10} + y_{InM28} \leq 42 \quad (4.10)$$

Berdasarkan data penerbangan internasional dan domestik pada bandara, persamaan batas dirumuskan

$$y_{InM10} + y_{InM28} = 0 \quad (4.11)$$

$$x_{InM10} + x_{InM28} \leq 3 \tag{4.12}$$

$$y_{DM10} + y_{DM28} \leq 10 \tag{4.13}$$

$$y_{InS10} + y_{InS28} \leq 16 \tag{4.14}$$

Berdasarkan solusi optimum dan persamaan (4.4) persamaan batas penerbangan dirumuskan

$$10\,log\left[\left(\sum_{i=1}^{2}\left(x_{jS10} + x_{jS28} + 10\left(x_{jM10} + x_{jM28}\right)\right)10^{\frac{NEL}{10}} + (y_{jS10} + y_{jS28} + 10(y_{jM10} + y_{jM28}))10^{\frac{NEL}{10}}\right) - 49.4\right] \leq Ldn$$

$$10\,log\left[(x_{DS10} + x_{DS28} + x_{InS10} + x_{InS28} + 10(x_{DM10} + x_{DM28} + x_{InM10} + x_{InM28}) + y_{DS10} + y_{DS28} + y_{InS10} + y_{InS28} + 10(y_{DM10} + y_{DM28} + y_{InM10} + y_{InM28}))10^{\frac{NEL}{10}}\right] \leq Ldn \tag{4.15}$$

dengan :

x	jumlah pesawat berangkat
y	jumlah pesawat tiba
D	penerbangan domestik
In	penerbangan internasional
S	periode siang
M	periode malam
10	*runway 10*
28	*runway 28*

4.4. Solusi Optimal

Persamaan (4.6) didekati dengan deret Taylor di sekitar titik $S = 1{\times}10^6$ untuk membentuk fungsi $F(S)$.

$$F(S_A) = Z(S) + Z'(S)(S_A - S) + Z''(S_A - S)^2/2$$
$$F(S_A) = Z(10^6) + Z'(10^6)(S_A - 10^6) + Z''(S_A - 10^6)^2/2$$
$$F(S_A) = 0.3508 + (1.4424e-007)x - (5.7769e-014)(x - 10^6)^2$$

Solusi dari persamaan $F(S_A)$ diperoleh dengan melakukan iterasi Newton Raphson dengan nilai awal S_a.

$$S_{A_{k+1}} = S_{A_k} - \frac{F(S_{A_k})}{F'(S_{A_k})} \; dengan \; k = 1,2,3, \ldots$$

dengan error $\varepsilon = 5\times10^{-10}$. Nilai awal $S_a = 547.894.249$ adalah rata-rata nilai S_a dari hasil pengukuran dilapangan. Data hasil pengukuran terlampir pada Lampiran 3.

Perhitungan dilakukan dengan *software* MATLAB, program terlampir. Iterasi menghasilkan solusi optimal pada titik $S_o = 5.430.926{,}077$.

$U(S)$ adalah fungsi Z yang didekati pada S_o untuk mengetahui apakah terdapat solusi yang lebih tepat.

$$U(S) = Z(S_o) + Z'(S_o)(S - S_o) + Z''(S - S_o)^2/2 \quad (4.16)$$

$$U(S) = (3.7367e-008)x - (2.7294e-015)(x - (5.4309e+006))\text{^}2) + 0.5827$$
$$U'(S) = (6.7014e-008) - (5.4589e-015)x$$

Solusi awal dari persamaan tersebut didapatkan saat $U'(S) = 0$. Solusi optimal dari persamaan (4.16) adalah S_1. Iterasi dilakukan untuk mendapatkan nilai solusi optimal saat dipenuhi syarat $U(S_1) < U(S_o)$. Jika $U(S_1) < U(S_o)$, terdapat S_2 diantara S_1 dan S_o dimana $Z(S_2) < Z(S_o)$. Nilai S_2 adalah variabel bebas dalam S sehingga untuk $0 \leq \alpha \leq 1$, Z minimum pada

$$Z(S_2) = Z(S_o + \alpha(S_1 - S_o))$$

Nilai S_o berubah menjadi nilai S_2. Iterasi dilakukan sampai memenuhi kondisi $U(S_1) \geq U(S_o)$. Perhitungan diatas dilakukan

dengan simulasi pada *software* MATLAB menghasilkan solusi optimal $S_1 = 12.276.185{,}62$. *Code* MATLAB terlampir di lampiran. Nilai $S_1 = 12.276.185{,}62$ menghasilkan nilai $Ldn = 70{,}89063447$, dengan menggunakan persamaan (4.5).

$$Ldn = 10\log(12.276.185{,}62)$$
$$Ldn = 70{,}89063447$$

Nilai Ldn optimal akan disubstitusi ke persamaan (4.15) menjadi

$$\begin{aligned} & x_{DS10} + x_{DS28} + x_{InS10} + x_{InS28} \\ & + 10(x_{DM10} + x_{DM28} + x_{InM10} + x_{InM28}) \\ & + y_{DS10} + y_{DS28} + y_{InS10} + y_{InS28} \\ & + 10(y_{DM10} + y_{DM28} + y_{InM10} + y_{InM28}) \\ & \leq 756 \end{aligned} \tag{4.16}$$

4.5. Aplikasi Pada Penjadwalan

Penyelesaian matematis diatas digunakan untuk menyelesaikan masalah kebisingan pada Bandar Udara Juanda. Kondisi batas telah diuraikan pada persamaan (4.7) sampai dengan (4.16). Penjadwalan pada bagian ini dilakukan berdasarkan kondisi batas ditambah dengan solusi optimal yang harus terpenuhi, dengan menggunakan program linier. Berikut adalah solusi jadi kondisi batas diatas. Perbandingan bobot kebisingan optimal dan sebelum dioptimalkan dapat diketahui dengan melihat indeks dampak kebisingan. Indeks dampak kebisingan atau *Noise Impact Index* dihitung dengan menggunakan rumus :

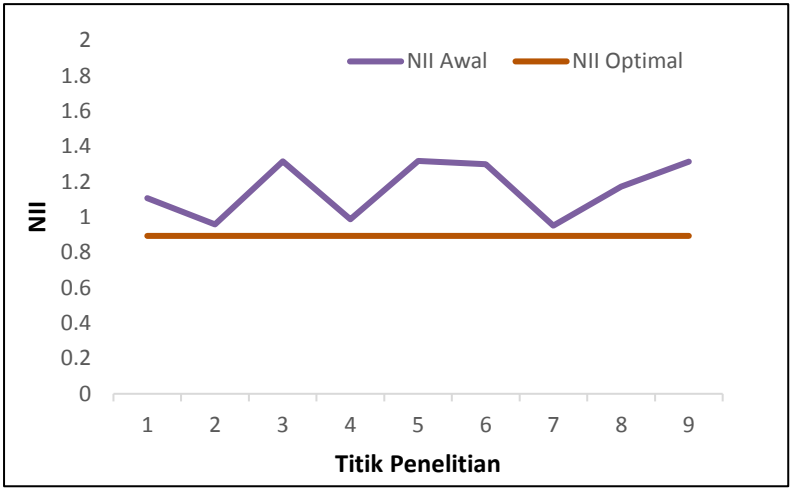
$$NII = \frac{LWP}{Ptotal}$$

$$LWP = \frac{W(Ldn) + W(Ldn + 5)}{2}$$

Tabel 4.4. Perbandingan Nilai *Noise Impact Index*

Hari	Lokasi	NII Awal	NII Optimal	Persen penurunan (%)
1	1	1.108032903	0.893602889	21.44300138
	2	0.957991108	0.893602889	6.43882193
	3	1.315622758	0.893602889	42.20198684
2	1	0.987704497	0.893602889	9.41016080
	2	1.317759799	0.893602889	42.41569096
	3	1.299335228	0.893602889	40.57323390
3	1	0.951596346	0.893602889	5.79934570
	2	1.171879346	0.893602889	27.82764570
	3	1.314190735	0.893602889	42.05878454

Tabel 4.4. merepresentasikan nilai *Noise Impact Index* (NII) selama tiga hari pengukuran, dimana masing-masing hari diukur pada tiga titik. Variasi nilai NII dipengaruhi oleh letak titik pengambilan sampel. Lokasi 1 berada di selatan lintasan pesawat, lokasi 2 berada tepat dibawah lintasan pesawat, sedangkan lokasi 3 berada di utara lintasan pesawat. Apabila setiap nilai NII dibandingkan dengan nilai NII optimum maka terdapat penurunan kebisingan yaitu pada kolom persen penurunan.



Gambar 4.1. Perbandingan Nilai *Noise Impact Index*

Tabel 4.5. Jadwal Keberangkatan dan Kedatangan dengan $NII =$ 0.893602889

Jumlah Pesawat	Berang-kat	Tiba	Tipe Penerbangan		Periode Penerbangan		*Runway*	
			Dom	Intl	Siang	Malam	10	28
3	X			x		x	x	
19	X		x			x	x	
16	X			x	x		x	
150	X		x		x		x	
36	X		x		x			x
0		x		x		x		x
10		x	x			x	x	
16		x		x	x		x	
158		x	x		x		x	
60		x	x		x			x
50		x	x		x			x

Dengan menggunakan batasan-batasan penerbangan seperti telah diuraikan pada bagian sebelumnya, jadwal penerbangan dapat diperoleh seperti dalam Tabel 4.5. batasan-batasan tersebut meliputi nilai Ldn optimal, periode penerbangan dan *runway usage.* Batasan-batasan tersebut dihitung secara matematis dengan program linier.

Runway usage bergantung pada dua hal, yaitu penggunaan berdasarkan faktor arah angin dan berdasarkan dampak pada daerah yang dilalui. Penggunaan berdasarkan faktor arah angin memprioritaskan keselamatan penerbangan, sedangkan penggunaan berdasarkan dampak pada daerah yang dilalui memprioritaskan dampak pada lingkungan termasuk kebisingan. Apabila mengacu pada arah angin maka sewaktu-waktu solusi yang diberikan pada Tabel 4.5. dapat diubah pada penggunaan *runway* 10 dan *runway* 28. Apabila mengacu pada dampak yang ditimbulkan pada lingkungan, terutama lingkungan padat penduduk, sekolah dan gedung yang tinggi maka solusi jadwal penerbangan pada Tabel 4.5 dapat digunakan. Tabel 4.5. adalah salah satu alternatif jadwal penerbangan yang dapat digunakan dalam pengelolaan jadwal penerbangan.

BAB V
PENUTUP

5.1. Kesimpulan

Berdasarkan analisa dan pembahasan pada Bab IV, dapat diambil beberapa kesimpulan sebagai berikut :

1. Hasil pemodelan Ldn dan Z yang diperoleh adalah

$$Ldn = 10\ log\left[\sum_{i=1}^{2}\left(x_{iS10} + x_{iS28} + 10(x_{iM10} + x_{iM28})\right)10^{\frac{NEL}{10}} + \left(y_{iS10} + y_{iS28} + 10(y_{iM10} + y_{iM28})\right)10^{\frac{NEL}{10}}\right] - 49.4$$

$$Z = \sum_{A=1}^{n}\frac{P_A}{P}\frac{3{,}364\times10^{-6}{S_A}^{1{,}03}}{0{,}02{S_A}^{0.3} + 1{,}43\times10^{-4}{S_A}^{0.8}}$$

   Dimana hubungan Ldn dan S_A adalah $Ldn = 10\log S_A$, sehingga jumlah pesawat, Ldn dan Z saling mempengaruhi.
2. Indeks dampak kebisingan mengalami penurunan dari 5.79934570% hingga 42.41569096% setelah dioptimalkan. Hal ini berarti dampak kebisingan yang terjadi berkurang hingga 42.41569096% tepatnya berada di lokasi 2 pada hari ke 2.
3. Terdapat variasi penurunan indeks kebisingan atau NII. Hal ini diakibatkan oleh tingkat Ldn yang berbeda di setiap titik pengukuran, dimana pada jarak 6,5 km tingkat kebisingan sudah optimal untuk daerah perdagangan, rekreasi dan industri.
4. Penjadwalan penerbangan komersial yang diuraikan merupakan salah satu alternatif karena penggunaan *runway* sangat dipengaruhi oleh arah angin.

5.2. Saran

Tugas Akhir ini dapat berkembang sesuai dengan perkembangan ilmu pengetahuan. Adapun saran yang diberikan oleh penulis untuk penelitian berikutnya adalah optimalisasi dan penjadwalan penerbangan dapat dilakukan dengan *Noise Abatement*. Optimalisasi kebisingan dengan *Noise Abatement* telah digunakan dibeberapa negara maju untuk mengatur lalu lintas penerbangan dengan memperhatikan kondisi geografis daerah-daerah yang dilalui oleh pesawat.

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LAMPIRAN

Lampiran 1. Code Nilai S_o dengan MATLAB

```
syms x;

%input
X(1,1)   = input('fungsi di dekati di sekitar xo
= ');     %x0=200
fprintf('\n');
A(1,1)   = input('nilai aproksimasi awal xa = ');
%xa=120
fprintf('\n');
Fun      = input('f(x) = ');       %Fun=fungsi
awal
fprintf('\n');

%turunan pertama
difFun=diff(Fun);
dFch=char(difFun);
fprintf('First Derivative of F(x) is \n');
fprintf('f''(x) = % s \n',dFch);
fprintf('\n');

%turunan Kedua
diifFun=diff(difFun);
dFFch=char(diifFun);
fprintf('Second Derivative of F(x) is \n');
fprintf('f"(x) = % s \n',dFFch);
fprintf('\n');

%turunan ketiga
diiifFun = diff(diifFun);
dFFFch = char(diiifFun);
fprintf('Third Derivative of F(x) is \n');
fprintf('f"''(x) = % s \n',dFFFch);
fprintf('\n');
```

```
%turunan keempat
divfFun = diff(diiifFun);
dFFFFch = char(divfFun);
fprintf('Fourth Derivative of F(x) is \n');
fprintf('f""''(x) = % s \n',dFFFFch);
fprintf('\n');
fprintf('\n');

%Fungsi TAYLOR
tay0 = subs(Fun,X(1,1));
tay1 = subs(difFun,X(1,1));
tay2 = subs(diifFun,X(1,1));
tay3 = subs(diiifFun,X(1,1));
tay4 = subs(divfFun,X(1,1));
Ft = tay0+tay1*(x-X(1,1))+tay2*(x-
X(1,1))^2/factorial(2);   %Ft=fungsi Taylor
dFt = char(Ft);
fprintf('Fungsi Taylor U(x) adalah \n');
fprintf('U(x) = % s \n',dFt);
fprintf('\n');

%%turunan fungsi Taylor
%turunan pertama Taylor
difFt=diff(Ft);
dFch=char(difFt);
fprintf('First Derivative of U(x) is \n');
fprintf('f''(x) = % s \n',dFch);
fprintf('\n');

%error
error_A  = 1;
error_FX = 1;
nx       = 1;
error_FXC(1,1) = NaN;
fprintf('   iteration#    value for X*
F(X*)        diff1(X*)       Error X\n');

%%  iterasi
```

```
while error_A >= 5*10^(-10)

    dif1                = diff(Ft);
    FX(nx,1)            = subs(Ft,A(nx));
    FFX(nx,1)           = subs(dif1,A(nx));
    fprintf('       %2d          %-.6f        %-
.6d        %-.6f          %-.6d\n', nx-1,
A(nx,1),FX(nx,1),FFX(nx,1),error_A);
    nx                  = nx + 1;
    Fun1                = subs(Ft,A(nx-1,1));
    dif1                = diff(Ft);
    dif1x               = subs(dif1,A(nx-1,1));
    A(nx,1)             = A(nx-1,1) -
(Fun1/dif1x);  % x(k) = x(k-1) - {f(x(k-1)) /
f'(x(k-1));
    error_AC(nx,1)      = abs(((A(nx,1)- A(nx-
1,1))/A(nx,1))*100);    % error x* = |(x(k) -
x(k-1))/x(k)*100|;
    error_A             = error_AC(nx,1);
    FX(nx,1)            = subs(Ft,A(nx));
    FFX(nx,1)           = subs(dif1,A(nx));

end
% to display last iteration:
    fprintf('       %2d          %-.6f        %-
.6f         %-.6f        %-.6f\n', nx-1,
A(nx,1),FX(nx,1),FFX(nx,1),error_A);
```

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Lampiran 2. Code Nilai S_1 dengan MATLAB

```
syms x
t      =input('Titik kritis X* =  ');
fprintf(' \n');
Z      = 3.364*(10^-
6)*(x^1.03)/(0.02*(x^0.3)+1.43*(10^-4)*(x^0.8));
Zbaru=inline(Z,'x');
Z1     =
diff(Z);%(818131103691234529*x^(3/100))/(2361183
24143482260684800*((1318942201270233*x^(4/5))/92
23372036854775808 + x^(3/10)/50)) -
(7943020424186743*x^(103/100)*(1318942201270233/
(11529215046068469760*x^(1/5)) +
3/(500*x^(7/10))))/(2361183241434822606848*((131
8942201270233*x^(4/5))/9223372036854775808 +
x^(3/10)/50)^2)
Z1baru=inline(Z1,'x');
Z2     =
diff(Z1);%122719665553685184/(5*x^(97/100)*(3376
4920352517964800*x^(4/5) +
4722366482869645213696*x^(3/10))) -
(818131103691234529*x^(3/100)*(1318942201270233/
(11529215046068469760*x^(1/5)) +
3/(500*x^(7/10))))/(2361183241434822606848*((1
318942201270233*x^(4/5))/9223372036854775808 +
x^(3/10)/50)^2) +
(7943020424186743*x^(103/100)*(1318942201270233/
(576460752303423488000*x^(6/5)) +
21/(5000*x^(17/10))))/(2361183241434822606848*((
1318942201270233*x^(4/5))/9223372036854775808 +
x^(3/10)/50)^2) -
(818131103691234560*x^(3/100)*(27011936282014371
840/x^(1/5) +
7083549724304467820544/(5*x^(7/10))))/(337649203
52517964800*x^(4/5) +
4722366482869645213696*x^(3/10))^2 +
(7943020424186743*x^(103/100)*(1318942201270233/
(11529215046068469760*x^(1/5)) +
```

```
3/(500*x^(7/10)))^2)/(1180591620717411303424*((1
3189422012702 33*x^(4/5))/9223372036854775808 +
x^(3/10)/50)^3)
Z2baru=inline(Z2,'x');

u       = Zbaru(t)+Z1baru(t)*(x-t)+Z2baru(t)*(x-
t)^(2)/2;
ubaru=inline(u,'x');
u1      = diff(u,x);
x1      = solve(u1);
v       = ubaru(x1);%u(s1)
b       = ubaru(t);%u(s*)
min=999999.99;
while subs(v) <= subs(min)
    % ind=0;
    % p=zeros(1,11);
    for alpha=0:0.1:1
        c = t+alpha*(x1-t);
        p = vpa(Zbaru(c));
        if subs(p) < subs(min)
            %x* baru
            min=p;
            t1=c;
        end
        t=t1;
            u       = Zbaru(t)+Z1baru(t)*(x-
t)+Z2baru(t)*(x-t)^(2)/2;
            ubaru   = inline(u,'x');
            u1      = diff(u,x);
            x1      = vpa(solve(u1))
            b       = subs(u,t);%u(s*)
            v       = subs(u,x1);%u(s1)

    end
end
```

Lampiran 3. Hasil Pengukuran Kebisingan Hari 1

Lokasi 1		Lokasi 2		Lokasi 3	
dB	Waktu	dB	Waktu	dB	Waktu
49.6	05:00:03	54.8	05:00:00	76.4	05:00:02
54.3	05:00:04	53.1	05:00:01	74.1	05:00:03
48.1	05:00:05	53.4	05:00:02	74.3	05:00:04
50	05:00:06	52.7	05:00:03	72.5	05:00:05
52.2	05:00:07	53.1	05:00:04	73.3	05:00:06
53.9	05:00:08	52.1	05:00:05	75	05:00:07
54.7	05:00:09	52.4	05:00:06	74.7	05:00:08
57.6	05:00:10	52.9	05:00:07	73.4	05:00:09
57.4	05:00:11	53.9	05:00:08	71.1	05:00:10
55.5	05:00:12	52.3	05:00:09	70.3	05:00:11
57	05:00:13	52.4	05:00:10	74.8	05:00:12
57.1	05:00:14	51.9	05:00:11	72	05:00:13
54.8	05:00:15	52.9	05:00:12	71	05:00:14
53.4	05:00:16	53.2	05:00:13	67.5	05:00:15
52.4	05:00:17	52.7	05:00:14	67.6	05:00:16
51.3	05:00:18	54.1	05:00:15	67.6	05:00:17
50.4	05:00:19	54.8	05:00:16	70	05:00:18
49.9	05:00:20	53.3	05:00:17	69.4	05:00:19
49.5	05:00:21	52.7	05:00:18	71.8	05:00:20
55.1	05:00:22	52.8	05:00:19	69.2	05:00:21
56.4	05:00:23	53.5	05:00:20	70.5	05:00:22
57.2	05:00:24	53.9	05:00:21	71.7	05:00:23
54.1	05:00:25	54.9	05:00:22	68.4	05:00:24
53.8	05:00:26	52.7	05:00:23	67.2	05:00:25
53.1	05:00:27	53.6	05:00:24	67.5	05:00:26
51.8	05:00:28	53.4	05:00:25	65.6	05:00:27
51.6	05:00:29	67.2	05:00:26	67.3	05:00:28
49.4	05:00:30	68	05:00:27	66.2	05:00:29
47.7	05:00:31	68	05:00:28	66.9	05:00:30
46.6	05:00:32	67.9	05:00:29	68.6	05:00:31
44.4	05:00:33	67.9	05:00:30	68.3	05:00:32
46.1	05:00:34	68.1	05:00:31	63.2	05:00:33
44	05:00:35	67.9	05:00:32	60.8	05:00:34
45.2	05:00:36	67.6	05:00:33	64.6	05:00:35
44.2	05:00:37	67.3	05:00:34	65.4	05:00:36
44.9	05:00:38	68.3	05:00:35	74.2	05:00:37
45.6	05:00:39	68.1	05:00:36	69.4	05:00:38
47.4	05:00:40	65.1	05:00:37	74.1	05:00:39
48.8	05:00:41	67.7	05:00:38	72.8	05:00:40
48.4	05:00:42	68	05:00:39	74.5	05:00:41
51.3	05:00:43	68.4	05:00:40	66.7	05:00:42
56.2	05:00:44	67.8	05:00:41	66.1	05:00:43
55.4	05:00:45	66.5	05:00:42	66.2	05:00:44
55.4	05:00:46	69.1	05:00:43	66.6	05:00:45
56	05:00:47	66.9	05:00:44	65.9	05:00:46
56.7	05:00:48	68.7	05:00:45	66.3	05:00:47
57.2	05:00:49	68	05:00:46	66.2	05:00:48
56.7	05:00:50	69	05:00:47	69.2	05:00:49
55.9	05:00:51	67.4	05:00:48	71.5	05:00:50
53.2	05:00:52	67.3	05:00:49	74.1	05:00:51
51.3	05:00:53	68.4	05:00:50	75.2	05:00:52
49.9	05:00:54	68.2	05:00:51	72.7	05:00:53
49.3	05:00:55	74	05:00:52	73.1	05:00:54
49.5	05:00:56	67.5	05:00:53	72.2	05:00:55
48.5	05:00:57	68.7	05:00:54	73	05:00:56
48.4	05:00:58	71.6	05:00:55	77.6	05:00:57
50.3	05:00:59	68.5	05:00:56	75.5	05:00:58
51.2	05:01:00	77.5	05:00:57	72.5	05:00:59
53	05:01:01	73.1	05:00:58	73	05:01:00
53.8	05:01:02	73	05:00:59	68.9	05:01:01
57.6	05:01:03	69.9	05:01:00	68.9	05:01:02
59.9	05:01:04	69	05:01:01	71.8	05:01:03
59.6	05:01:05	67.9	05:01:02	70.5	05:01:04
64.4	05:01:06	67.6	05:01:03	69	05:01:05
53.9	05:01:07	66.9	05:01:04	67.1	05:01:06
54.8	05:01:08	66.2	05:01:05	68.4	05:01:07
54.1	05:01:09	67.4	05:01:06	66.7	05:01:08
60.8	05:01:10	66.9	05:01:07	66.2	05:01:09
60.5	05:01:11	67	05:01:08	67	05:01:10
58.4	05:01:12	65.2	05:01:09	68	05:01:11
57.4	05:01:13	66.8	05:01:10	69.4	05:01:12
57.2	05:01:14	66.4	05:01:11	71.5	05:01:13
55.8	05:01:15	66.6	05:01:12	68.2	05:01:14
56	05:01:16	66.4	05:01:13	67.1	05:01:15
70.7	05:01:17	66.2	05:01:14	69.2	05:01:16
57.8	05:01:18	66.5	05:01:15	71	05:01:17
57	05:01:19	66.8	05:01:16	74.2	05:01:18
55	05:01:20	66.8	05:01:17	77.8	05:01:19
55.4	05:01:21	66.8	05:01:18	76.2	05:01:20
55.2	05:01:22	67.6	05:01:19	75.6	05:01:21
53	05:01:23	67.6	05:01:20	71.3	05:01:22
56.3	05:01:24	67.5	05:01:21	69.7	05:01:23
55.3	05:01:25	72.1	05:01:22	69.5	05:01:24
55.8	05:01:26	71.9	05:01:23	69.3	05:01:25
58.1	05:01:27	67.4	05:01:24	67.4	05:01:26
58.7	05:01:28	66.5	05:01:25	79.9	05:01:27
62	05:01:29	53.3	05:01:26	70.4	05:01:28

60	05:01:30	60.1	05:01:27	71.2	05:01:29
58.7	05:01:31	56.7	05:01:28	73.3	05:01:30
59.4	05:01:32	55.4	05:01:29	75.6	05:01:31
60.8	05:01:33	51.8	05:01:30	76.6	05:01:32
61.3	05:01:34	47.8	05:01:31	76.4	05:01:33
67.4	05:01:35	48.9	05:01:32	71.2	05:01:34
74.8	05:01:36	44.8	05:01:33	70.6	05:01:35
68.3	05:01:37	44.3	05:01:34	70.1	05:01:36
61.1	05:01:38	43.3	05:01:35	67.7	05:01:37
62	05:01:39	41.7	05:01:36	64.8	05:01:38
60	05:01:40	40.9	05:01:37	64	05:01:39
56.5	05:01:41	40.4	05:01:38	67.9	05:01:40
57.5	05:01:42	40.3	05:01:39	70.8	05:01:41
58	05:01:43	39.6	05:01:40	70.4	05:01:42
57.8	05:01:44	40.2	05:01:41	71.6	05:01:43
58.6	05:01:45	39.3	05:01:42	74.5	05:01:44
57.6	05:01:46	40	05:01:43	71.2	05:01:45
55	05:01:47	41.5	05:01:44	71.2	05:01:46
53.7	05:01:48	40	05:01:45	69.8	05:01:47
56.4	05:01:49	40.8	05:01:46	69.4	05:01:48
52.1	05:01:50	40.2	05:01:47	71.1	05:01:49
52.1	05:01:51	40.1	05:01:48	68.6	05:01:50
51.6	05:01:52	41.9	05:01:49	61.6	05:01:51
51.2	05:01:53	42.1	05:01:50	66.3	05:01:52
50.8	05:01:54	46.5	05:01:51	66.1	05:01:53
55.3	05:01:55	58.4	05:01:52	70.6	05:01:54
54	05:01:56	56.6	05:01:53	73.4	05:01:55
57.9	05:01:57	48.9	05:01:54	74.6	05:01:56
60	05:01:58	50.1	05:01:55	66.4	05:01:57
57.6	05:01:59	44.3	05:01:56	60.2	05:01:58
56.4	05:02:00	44.8	05:01:57	60.3	05:01:59
58.1	05:02:01	48.8	05:01:58	60.5	05:02:00
72.9	05:02:02	46.9	05:01:59	62	05:02:01
58	05:02:03	54	05:02:00	74.4	05:02:02
59.8	05:02:04	57.3	05:02:01	72.3	05:02:03
60.6	05:02:05	49.9	05:02:02	70	05:02:04
63.1	05:02:06	48.1	05:02:03	66.9	05:02:05
65.1	05:02:07	43	05:02:04	65	05:02:06
68.4	05:02:08	45	05:02:05	61.7	05:02:07
70.1	05:02:09	43.4	05:02:06	64.9	05:02:08
63.4	05:02:10	41.2	05:02:07	61.2	05:02:09
59.5	05:02:11	38.8	05:02:08	64.6	05:02:10
61.6	05:02:12	44.5	05:02:09	66.1	05:02:11
61.8	05:02:13	41.1	05:02:10	71.1	05:02:12
63.2	05:02:14	38.5	05:02:11	70.8	05:02:13
59.8	05:02:15	43.1	05:02:12	73.1	05:02:14

60.4	05:02:16	45.9	05:02:13	70.5	05:02:15
59.3	05:02:17	45.7	05:02:14	73.1	05:02:16
57.9	05:02:18	45.6	05:02:15	72.1	05:02:17
62.1	05:02:19	47.1	05:02:16	71	05:02:18
62.1	05:02:20	47.1	05:02:17	68.4	05:02:19
61.9	05:02:21	46	05:02:18	64.7	05:02:20
64.1	05:02:22	47.8	05:02:19	63.6	05:02:21
65.6	05:02:23	47.9	05:02:20	63.1	05:02:22
60.3	05:02:24	45.7	05:02:21	67.6	05:02:23
60.1	05:02:25	43.7	05:02:22	68.4	05:02:24
61.5	05:02:26	49.6	05:02:23	68.3	05:02:25
63.1	05:02:27	45.9	05:02:24	69.8	05:02:26
64.7	05:02:28	50	05:02:25	70.1	05:02:27
64.2	05:02:29	54.4	05:02:26	73.5	05:02:28
60.8	05:02:30	55.4	05:02:27	71.5	05:02:29
60.7	05:02:31	59.1	05:02:28	68.9	05:02:30
60.1	05:02:32	56.6	05:02:29	70.4	05:02:31
59.9	05:02:33	56.1	05:02:30	73.3	05:02:32
59.9	05:02:34	56.8	05:02:31	71.6	05:02:33
59.2	05:02:35	54.5	05:02:32	70.2	05:02:34
58.2	05:02:36	61.1	05:02:33	69	05:02:35
57.9	05:02:37	59.1	05:02:34	67.7	05:02:36
55.3	05:02:38	60.9	05:02:35	66.5	05:02:37
53	05:02:39	65.2	05:02:36	69.5	05:02:38
51	05:02:40	64.2	05:02:37	74.7	05:02:39
51.1	05:02:41	61	05:02:38	73.6	05:02:40
51.7	05:02:42	61.4	05:02:39	74.8	05:02:41
52.8	05:02:43	56.1	05:02:40	72.7	05:02:42
53.9	05:02:44	56.1	05:02:41	71.7	05:02:43
53.3	05:02:45	52	05:02:42	70.2	05:02:44
56.3	05:02:46	53.3	05:02:43	69.1	05:02:45
61	05:02:47	48.2	05:02:44	69.7	05:02:46
67.5	05:02:48	49.6	05:02:45	72.7	05:02:47
73.4	05:02:49	49.4	05:02:46	67.2	05:02:48
63.9	05:02:50	49.4	05:02:47	75.4	05:02:49
58.2	05:02:51	56.8	05:02:48	73.4	05:02:50
53	05:02:52	58.8	05:02:49	64.4	05:02:51
59.6	05:02:53	52.9	05:02:50	59.1	05:02:52
56.7	05:02:54	56.5	05:02:51	71.4	05:02:53
48.2	05:02:55	48.9	05:02:52	66.7	05:02:54
51.8	05:02:56	45	05:02:53	68.5	05:02:55
57.9	05:02:57	43.1	05:02:54	76	05:02:56
57.5	05:02:58	42.6	05:02:55	68.5	05:02:57
56	05:02:59	48.7	05:02:56	72	05:02:58
54.4	05:03:00	53.2	05:02:57	71.7	05:02:59
52.6	05:03:01	53.9	05:02:58	71.8	05:03:00

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46.8	05:03:03	64.5	05:03:00	72.1	05:03:02
46.9	05:03:04	56.2	05:03:01	69.7	05:03:03
47.5	05:03:05	50.1	05:03:02	67.5	05:03:04
47.2	05:03:06	45.2	05:03:03	74.7	05:03:05
52.4	05:03:07	47.7	05:03:04	71	05:03:06
51.9	05:03:08	51.6	05:03:05	65.4	05:03:07
51.4	05:03:09	53.9	05:03:06	66.9	05:03:08
57.3	05:03:10	49.8	05:03:07	67	05:03:09
57.5	05:03:11	50.5	05:03:08	67.9	05:03:10
57.4	05:03:12	59.4	05:03:09	69.7	05:03:11
59.6	05:03:13	56.3	05:03:10	66.1	05:03:12
60.9	05:03:14	47.8	05:03:11	67	05:03:13
59.7	05:03:15	43.3	05:03:12	68.8	05:03:14
59.4	05:03:16	47.9	05:03:13	67.8	05:03:15
60.8	05:03:17	40.4	05:03:14	66	05:03:16
58.6	05:03:18	41.9	05:03:15	65.8	05:03:17
56	05:03:19	43.4	05:03:16	68.5	05:03:18
61	05:03:20	42.4	05:03:17	70.2	05:03:19
65.1	05:03:21	40	05:03:18	74.6	05:03:20
58.7	05:03:22	43	05:03:19	77	05:03:21
58.3	05:03:23	39.9	05:03:20	72.6	05:03:22
60	05:03:24	44.5	05:03:21	66.1	05:03:23
59.4	05:03:25	41.5	05:03:22	66.5	05:03:24
57.8	05:03:26	40.3	05:03:23	68.1	05:03:25
54.7	05:03:27	40.1	05:03:24	65.9	05:03:26
52.9	05:03:28	41.1	05:03:25	65	05:03:27
50.5	05:03:29	42.5	05:03:26	68.2	05:03:28
50.3	05:03:30	44.1	05:03:27	71.9	05:03:29
51	05:03:31	48.5	05:03:28	70.9	05:03:30
51.1	05:03:32	45	05:03:29	73.8	05:03:31
51	05:03:33	40.6	05:03:30	68.8	05:03:32
48.5	05:03:34	38.6	05:03:31	67.4	05:03:33
51.3	05:03:35	39.3	05:03:32	66.4	05:03:34
55.8	05:03:36	38.4	05:03:33	69.1	05:03:35
57.5	05:03:37	40.7	05:03:34	71.7	05:03:36
57.4	05:03:38	41.7	05:03:35	72.4	05:03:37
54.8	05:03:39	46	05:03:36	73.2	05:03:38
49.8	05:03:40	45.2	05:03:37	73.7	05:03:39
48.4	05:03:41	47.4	05:03:38	73	05:03:40
48.6	05:03:42	49.2	05:03:39	77	05:03:41
48.4	05:03:43	55	05:03:40	79.2	05:03:42
49.6	05:03:44	46.8	05:03:41	74.3	05:03:43
52.5	05:03:45	43.5	05:03:42	73.5	05:03:44
57	05:03:46	42.4	05:03:43	73.4	05:03:45
59.7	05:03:47	43.2	05:03:44	72	05:03:46

60	05:03:48	45.8	05:03:45	69.9	05:03:47
60.3	05:03:49	46.5	05:03:46	70.2	05:03:48
59.2	05:03:50	49.7	05:03:47	71.2	05:03:49
58.9	05:03:51	49.9	05:03:48	73.2	05:03:50
58.9	05:03:52	45.7	05:03:49	75.5	05:03:51
54.9	05:03:53	44.1	05:03:50	74.4	05:03:52
56.5	05:03:54	39	05:03:51	70.5	05:03:53
59.1	05:03:55	39.1	05:03:52	64.8	05:03:54
57.9	05:03:56	38.2	05:03:53	63.7	05:03:55
57.2	05:03:57	40	05:03:54	59.8	05:03:56
58.4	05:03:58	38.9	05:03:55	58.3	05:03:57
62.6	05:03:59	38.4	05:03:56	61.4	05:03:58
57.8	05:04:00	38.7	05:03:57	64.6	05:03:59
60.7	05:04:01	37.5	05:03:58	70.6	05:04:00
60.6	05:04:02	37.7	05:03:59	71.5	05:04:01
60.6	05:04:03	38.1	05:04:00	70.1	05:04:02
56.3	05:04:04	38.8	05:04:01	75.7	05:04:03
59.1	05:04:05	38.3	05:04:02	73.9	05:04:04
58.7	05:04:06	38.9	05:04:03	73	05:04:05
56.3	05:04:07	39.2	05:04:04	73.3	05:04:06
54.5	05:04:08	38.7	05:04:05	77.5	05:04:07
56	05:04:09	39.7	05:04:06	69.7	05:04:08
59.3	05:04:10	40.5	05:04:07	66	05:04:09
57.1	05:04:11	39.8	05:04:08	65.8	05:04:10
57.2	05:04:12	39.2	05:04:09	65	05:04:11
56.7	05:04:13	39.2	05:04:10	68.9	05:04:12
60.1	05:04:14	39	05:04:11	72.1	05:04:13
59	05:04:15	39.8	05:04:12	65.5	05:04:14
58.1	05:04:16	39.3	05:04:13	63.5	05:04:15
60.5	05:04:17	39.4	05:04:14	59	05:04:16
64	05:04:18	40.8	05:04:15	69.5	05:04:17
70.4	05:04:19	41.6	05:04:16	69.8	05:04:18
69.1	05:04:20	41.9	05:04:17	65.8	05:04:19
55.5	05:04:21	40.4	05:04:18	71.2	05:04:20
61.9	05:04:22	39.3	05:04:19	74.6	05:04:21
61.4	05:04:23	41.3	05:04:20	74.6	05:04:22
59.4	05:04:24	42.2	05:04:21	78.3	05:04:23
67.7	05:04:25	43.5	05:04:22	74.3	05:04:24
62.4	05:04:26	42.7	05:04:23	71.2	05:04:25
60.8	05:04:27	45.7	05:04:24	69.6	05:04:26
59.1	05:04:28	46.9	05:04:25	66.5	05:04:27
58.5	05:04:29	50.1	05:04:26	67.3	05:04:28
58.4	05:04:30	56.9	05:04:27	70.1	05:04:29
60.4	05:04:31	48.5	05:04:28	72.1	05:04:30
70.5	05:04:32	47	05:04:29	70.1	05:04:31
66.4	05:04:33	46.9	05:04:30	68.8	05:04:32

56.9	05:04:34	44.2	05:04:31	66.2	05:04:33
57.7	05:04:35	46.7	05:04:32	68.3	05:04:34
60.2	05:04:36	49.4	05:04:33	67.8	05:04:35
58.7	05:04:37	51.3	05:04:34	66.9	05:04:36
57.2	05:04:38	59.1	05:04:35	73.7	05:04:37
55.5	05:04:39	51	05:04:36	74.4	05:04:38
57.6	05:04:40	51	05:04:37	71.9	05:04:39
58.9	05:04:41	50.6	05:04:38	74.4	05:04:40
60.3	05:04:42	52.3	05:04:39	73.6	05:04:41
61.5	05:04:43	59	05:04:40	72.5	05:04:42
60	05:04:44	51.2	05:04:41	70.7	05:04:43
55.6	05:04:45	48	05:04:42	67.3	05:04:44
56.4	05:04:46	46.6	05:04:43	65.5	05:04:45
53.3	05:04:47	51.7	05:04:44	69.3	05:04:46
49.5	05:04:48	53.8	05:04:45	68.9	05:04:47
46.9	05:04:49	60.1	05:04:46	66.6	05:04:48
46.5	05:04:50	49.8	05:04:47	63.5	05:04:49
46.4	05:04:51	55.4	05:04:48	60.6	05:04:50
47.5	05:04:52	55.9	05:04:49	65.2	05:04:51
48.3	05:04:53	44.3	05:04:50	71.3	05:04:52
48.5	05:04:54	44.7	05:04:51	70.7	05:04:53
50.1	05:04:55	46	05:04:52	71	05:04:54
50.2	05:04:56	46.4	05:04:53	70.4	05:04:55
50.3	05:04:57	42.1	05:04:54	70.5	05:04:56
51.7	05:04:58	41.3	05:04:55	67.1	05:04:57
54.2	05:04:59	44.3	05:04:56	64.5	05:04:58
59.8	05:05:00	39.3	05:04:57	62	05:04:59
56.2	05:05:01	39.5	05:04:58	65.9	05:05:00
53.6	05:05:02	40.6	05:04:59	74.1	05:05:01
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52.6	05:05:05	43.8	05:05:02	63.6	05:05:04
53.8	05:05:06	41.6	05:05:03	60.9	05:05:05
56.4	05:05:07	40.8	05:05:04	60.5	05:05:06
55.6	05:05:08	43.9	05:05:05	62	05:05:07
56.1	05:05:09	41.3	05:05:06	65.3	05:05:08
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60.4	05:05:12	41.7	05:05:09	66.7	05:05:11
55.6	05:05:13	46.3	05:05:10	70.5	05:05:12
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54	05:05:15	43.7	05:05:12	70.2	05:05:14
54.3	05:05:16	43.2	05:05:13	70	05:05:15
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55.3	05:05:18	48.9	05:05:15	68.9	05:05:17
57.3	05:05:19	50.8	05:05:16	70.6	05:05:18

54.7	05:05:20	46.3	05:05:17	68.3	05:05:19
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53.7	05:05:22	52.7	05:05:19	65.6	05:05:21
54.4	05:05:23	57.1	05:05:20	67.7	05:05:22
54.6	05:05:24	64.6	05:05:21	71.2	05:05:23
54.7	05:05:25	63.3	05:05:22	74.4	05:05:24
55.7	05:05:26	62.1	05:05:23	72.1	05:05:25
55.7	05:05:27	65.8	05:05:24	70	05:05:26
55.6	05:05:28	42.3	05:05:25	67.7	05:05:27
56.9	05:05:29	44	05:05:26	66.9	05:05:28
58.7	05:05:30	44.8	05:05:27	71.4	05:05:29
57	05:05:31	44.5	05:05:28	67.8	05:05:30
60	05:05:32	45.1	05:05:29	67.9	05:05:31
58.5	05:05:33	42.4	05:05:30	67.2	05:05:32
59.1	05:05:34	42.6	05:05:31	65.7	05:05:33
57.4	05:05:35	41.3	05:05:32	63.1	05:05:34
59.5	05:05:36	42.3	05:05:33	60.5	05:05:35
59.5	05:05:37	41.1	05:05:34	75.2	05:05:36
58.8	05:05:38	40.7	05:05:35	66.7	05:05:37
57.9	05:05:39	40.7	05:05:36	67.5	05:05:38
58.2	05:05:40	41.2	05:05:37	66.8	05:05:39
57.3	05:05:41	43	05:05:38	67	05:05:40
56.5	05:05:42	43.3	05:05:39	70.2	05:05:41
56.8	05:05:43	42.8	05:05:40	64	05:05:42
55.2	05:05:44	44.8	05:05:41	61.4	05:05:43
55.1	05:05:45	48.1	05:05:42	64.6	05:05:44
56.1	05:05:46	51.2	05:05:43	67.3	05:05:45
60.3	05:05:47	53.8	05:05:44	68.3	05:05:46
55.5	05:05:48	42.9	05:05:45	71.1	05:05:47
54.7	05:05:49	40.9	05:05:46	73	05:05:48
50.2	05:05:50	41	05:05:47	70.4	05:05:49
50.6	05:05:51	39.3	05:05:48	65	05:05:50
48.7	05:05:52	40.5	05:05:49	61.8	05:05:51
45.7	05:05:53	40	05:05:50	61.5	05:05:52
47.4	05:05:54	40	05:05:51	59	05:05:53
46.7	05:05:55	38.7	05:05:52	59.6	05:05:54
46.9	05:05:56	39.2	05:05:53	65.7	05:05:55
47	05:05:57	39.6	05:05:54	69.4	05:05:56
49.5	05:05:58	39.7	05:05:55	66.7	05:05:57
48.8	05:05:59	39.5	05:05:56	68.2	05:05:58
49.6	05:06:00	40.2	05:05:57	66.1	05:05:59
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54.9	05:06:05	39.9	05:06:02	69.8	05:06:04

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55.7	05:06:07	42.6	05:06:04	67.4	05:06:06
56.8	05:06:08	43.1	05:06:05	73.2	05:06:07
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63.9	05:06:11	48.5	05:06:08	69	05:06:10
56.1	05:06:12	52.2	05:06:09	70.2	05:06:11
60	05:06:13	52.4	05:06:10	72.5	05:06:12
66	05:06:14	49.2	05:06:11	73.6	05:06:13
62.2	05:06:15	44.4	05:06:12	72.2	05:06:14
60.8	05:06:16	46.2	05:06:13	70	05:06:15
65.6	05:06:17	57.6	05:06:14	67.4	05:06:16
67.9	05:06:18	56	05:06:15	68	05:06:17
68.1	05:06:19	50	05:06:16	68	05:06:18
64.5	05:06:20	44.7	05:06:17	70.3	05:06:19
69.1	05:06:21	42.1	05:06:18	73.7	05:06:20
68.2	05:06:22	41.4	05:06:19	70.2	05:06:21
64	05:06:23	42.4	05:06:20	67.6	05:06:22
72.6	05:06:24	41.4	05:06:21	68.5	05:06:23
61	05:06:25	40.8	05:06:22	69.3	05:06:24
63.9	05:06:26	40.8	05:06:23	66.3	05:06:25
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69.1	05:06:29	41.4	05:06:26	60.6	05:06:28
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68.1	05:06:31	47.5	05:06:28	71	05:06:30
66	05:06:32	54	05:06:29	70.8	05:06:31
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69.7	05:06:34	59.2	05:06:31	66.1	05:06:33
60.9	05:06:35	50.9	05:06:32	66.8	05:06:34
65.1	05:06:36	53.3	05:06:33	65.6	05:06:35
64.7	05:06:37	54.1	05:06:34	66.2	05:06:36
58.4	05:06:38	50.1	05:06:35	66	05:06:37
61	05:06:39	44.7	05:06:36	69.7	05:06:38
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61.3	05:06:41	64.2	05:06:38	69.4	05:06:40
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62.9	05:06:43	46.9	05:06:40	73	05:06:42
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55.4	05:06:48	51.5	05:06:45	67.4	05:06:47
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65.6	05:06:50	50.2	05:06:47	72	05:06:49
58.1	05:06:51	47.7	05:06:48	69.9	05:06:50

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57.9	05:06:54	44.4	05:06:51	59	05:06:53
56.2	05:06:55	46.8	05:06:52	61	05:06:54
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53.1	05:06:57	50.3	05:06:54	67.9	05:06:56
51	05:06:58	56.5	05:06:55	67.7	05:06:57
48.8	05:06:59	58.3	05:06:56	65.7	05:06:58
47.2	05:07:00	51.6	05:06:57	63.5	05:06:59
49.2	05:07:01	49.1	05:06:58	66	05:07:00
48.1	05:07:02	48.1	05:06:59	73	05:07:01
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54.3	05:07:25	57.4	05:07:22	74.3	05:07:24
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57.9	05:07:51	46	05:07:48	72.8	05:07:50
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47.3	05:08:42	55.7	05:08:39	70.3	05:08:41
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54.4	05:09:28	43	05:09:25	71.6	05:09:27
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56.2	05:09:39	43.4	05:09:36	72.2	05:09:38
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60	05:09:54	43.7	05:09:51	63.2	05:09:53
63.3	05:09:55	43.1	05:09:52	55.7	05:09:54

59.1	05:09:56	43.2	05:09:53	61.8	05:09:55
54.9	05:09:57	42.7	05:09:54	61.7	05:09:56
54.4	05:09:58	42.6	05:09:55	64.7	05:09:57
60.7	05:09:59	43.2	05:09:56	70.2	05:09:58
60.7	05:10:00	42	05:09:57	71.3	05:09:59
61.1	05:10:01	43	05:09:58	69.3	05:10:00
64.4	05:10:02	42.8	05:09:59	70.2	05:10:01
67.4	05:10:03	42.7	05:10:00	73.5	05:10:02
69.7	05:10:04	42.8	05:10:01	78.2	05:10:03
69.7	05:10:05	42.4	05:10:02	82.1	05:10:04
58.8	06:07:10	52.6	06:00:00	67	06:00:44
59	06:07:11	52.6	06:00:01	66.7	06:00:45
59.4	06:07:12	53.2	06:00:02	67.4	06:00:46
58.4	06:07:13	54.7	06:00:03	68.1	06:00:47
59	06:07:14	53.9	06:00:04	68.9	06:00:48
56.5	06:07:15	53.8	06:00:05	70.9	06:00:49
70.5	06:07:16	55.1	06:00:06	72	06:00:50
68.8	06:07:17	55	06:00:07	69.5	06:00:51
65.7	06:07:18	51.9	06:00:08	66.6	06:00:52
64.3	06:07:19	53.1	06:00:09	66.2	06:00:53
70	06:07:20	61.7	06:00:10	68.9	06:00:54
64.6	06:07:21	64.4	06:00:11	70.4	06:00:55
62.4	06:07:22	55.1	06:00:12	73.5	06:00:56
62.3	06:07:23	53.4	06:00:13	75.7	06:00:57
62.3	06:07:24	60.7	06:00:14	73.1	06:00:58
60.3	06:07:25	53.7	06:00:15	71	06:00:59
58.5	06:07:26	53.7	06:00:16	69.5	06:01:00
58.2	06:07:27	49.2	06:00:17	71.3	06:01:01
57.3	06:07:28	53	06:00:18	69	06:01:02
56.3	06:07:29	52	06:00:19	68.5	06:01:03
58.2	06:07:30	54.7	06:00:20	71	06:01:04
58.1	06:07:31	54.4	06:00:21	74.9	06:01:05
58.2	06:07:32	58.6	06:00:22	74.3	06:01:06
59.7	06:07:33	53.2	06:00:23	70.3	06:01:07
61.1	06:07:34	59.2	06:00:24	71.2	06:01:08
67	06:07:35	58.3	06:00:25	67.7	06:01:09
70.3	06:07:36	55.9	06:00:26	68.2	06:01:10
72	06:07:37	54.3	06:00:27	70.5	06:01:11
69.7	06:07:38	52	06:00:28	71.1	06:01:12
66.3	06:07:39	64.3	06:00:29	73.4	06:01:13
63.8	06:07:40	62	06:00:30	73	06:01:14
64.3	06:07:41	55.6	06:00:31	76	06:01:15
61.5	06:07:42	59.5	06:00:32	76.8	06:01:16
60	06:07:43	50.7	06:00:33	79.2	06:01:17
59.7	06:07:44	49.9	06:00:34	79.5	06:01:18
62.1	06:07:45	54.8	06:00:35	79.1	06:01:19

61.8	06:07:46	51.6	06:00:36	80.8	06:01:20
61.1	06:07:47	48.2	06:00:37	79.3	06:01:21
60.8	06:07:48	49.1	06:00:38	79.4	06:01:22
60.8	06:07:49	59.9	06:00:39	77.7	06:01:23
61.4	06:07:50	53.5	06:00:40	78	06:01:24
61.3	06:07:51	51.3	06:00:41	76.8	06:01:25
64.7	06:07:52	51.5	06:00:42	74.7	06:01:26
66.1	06:07:53	51.2	06:00:43	75.4	06:01:27
66.3	06:07:54	68.6	06:00:44	72.2	06:01:28
65.5	06:07:55	62.2	06:00:45	72.3	06:01:29
64.1	06:07:56	53.7	06:00:46	70.9	06:01:30
66.3	06:07:57	50.6	06:00:47	69.4	06:01:31
68.4	06:07:58	51.6	06:00:48	70.3	06:01:32
68.9	06:07:59	55.7	06:00:49	71.3	06:01:33
70.6	06:08:00	64.6	06:00:50	71	06:01:34
66.4	06:08:01	62.5	06:00:51	72.9	06:01:35
66	06:08:02	53.8	06:00:52	74.7	06:01:36
65	06:08:03	59.2	06:00:53	73.2	06:01:37
66.6	06:08:04	52	06:00:54	73.5	06:01:38
64.1	06:08:05	56.1	06:00:55	73.1	06:01:39
62.1	06:08:06	63.2	06:00:56	72.9	06:01:40
64.5	06:08:07	64.6	06:00:57	71.8	06:01:41
65.6	06:08:08	51.1	06:00:58	70.6	06:01:42
65.3	06:08:09	62.5	06:00:59	68.8	06:01:43
64.3	06:08:10	52.8	06:01:00	70	06:01:44
65.4	06:08:11	53	06:01:01	71.4	06:01:45
65.7	06:08:12	53.5	06:01:02	71.7	06:01:46
63.8	06:08:13	63.7	06:01:03	72.2	06:01:47
59.9	06:08:14	54.1	06:01:04	70	06:01:48
57.1	06:08:15	68.1	06:01:05	69.7	06:01:49
57.9	06:08:16	58.4	06:01:06	70.9	06:01:50
60.5	06:08:17	51.7	06:01:07	67.8	06:01:51
60.3	06:08:18	53	06:01:08	66.2	06:01:52
62.7	06:08:19	53.8	06:01:09	69.6	06:01:53
66.2	06:08:20	61	06:01:10	72.3	06:01:54
68.4	06:08:21	53.2	06:01:11	72.3	06:01:55
70.8	06:08:22	63.1	06:01:12	68.9	06:01:56
67.5	06:08:23	53.4	06:01:13	68	06:01:57
67	06:08:24	54.8	06:01:14	72.5	06:01:58
61.6	06:08:25	55.8	06:01:15	70.9	06:01:59
62	06:08:26	56	06:01:16	72.2	06:02:00
62.4	06:08:27	58.8	06:01:17	68.3	06:02:01
61	06:08:28	57	06:01:18	69.2	06:02:02
61.4	06:08:29	58.3	06:01:19	72	06:02:03
60.9	06:08:30	58.7	06:01:20	72.2	06:02:04
59.4	06:08:31	61.7	06:01:21	71.1	06:02:05

56.8	06:08:32	65.3	06:01:22	66.9	06:02:06
57.4	06:08:33	69.7	06:01:23	67.6	06:02:07
55.7	06:08:34	67.9	06:01:24	66.8	06:02:08
57.6	06:08:35	70.6	06:01:25	69.3	06:02:09
59.3	06:08:36	72	06:01:26	69.5	06:02:10
60.6	06:08:37	75.2	06:01:27	71.8	06:02:11
62.8	06:08:38	75.6	06:01:28	70.4	06:02:12
65	06:08:39	79.4	06:01:29	69.6	06:02:13
67.1	06:08:40	79.4	06:01:30	71.5	06:02:14
65.7	06:08:41	82.3	06:01:31	75.2	06:02:15
63.9	06:08:42	83	06:01:32	69.9	06:02:16
65.2	06:08:43	84.1	06:01:33	67.5	06:02:17
69.9	06:08:44	84.1	06:01:34	70.5	06:02:18
67.8	06:08:45	83.8	06:01:35	74.5	06:02:19
64.8	06:08:46	81.6	06:01:36	76.6	06:02:20
61.1	06:08:47	80.7	06:01:37	71	06:02:21
60.8	06:08:48	78.7	06:01:38	72.5	06:02:22
62	06:08:49	78.5	06:01:39	72.8	06:02:23
62.9	06:08:50	74.2	06:01:40	73	06:02:24
62.4	06:08:51	73.2	06:01:41	73.5	06:02:25
63.2	06:08:52	73.7	06:01:42	73	06:02:26
65.1	06:08:53	72.3	06:01:43	72.9	06:02:27
67.9	06:08:54	71.9	06:01:44	70.5	06:02:28
71	06:08:55	70.7	06:01:45	67.9	06:02:29
72.5	06:08:56	68.6	06:01:46	66	06:02:30
67.8	06:08:57	66.6	06:01:47	67.1	06:02:31
68.2	06:08:58	66.4	06:01:48	66.5	06:02:32
67.1	06:08:59	63.7	06:01:49	66.6	06:02:33
68.3	06:09:00	63.5	06:01:50	66	06:02:34
67.4	06:09:01	67.6	06:01:51	69.6	06:02:35
67.5	06:09:02	61.8	06:01:52	68.8	06:02:36
68.4	06:09:03	60.3	06:01:53	69.2	06:02:37
70.9	06:09:04	59.4	06:01:54	67	06:02:38
70.6	06:09:05	62.6	06:01:55	69.9	06:02:39
67.5	06:09:06	60.2	06:01:56	67.7	06:02:40
65.1	06:09:07	60.3	06:01:57	67.6	06:02:41
65.7	06:09:08	59.5	06:01:58	68.8	06:02:42
65	06:09:09	56.8	06:01:59	72.6	06:02:43
66.6	06:09:10	58.1	06:02:00	72.4	06:02:44
69.7	06:09:11	55.7	06:02:01	73.2	06:02:45
72.5	06:09:12	72.6	06:02:02	72.9	06:02:46
70	06:09:13	54.9	06:02:03	69.6	06:02:47
64.6	06:09:14	69.5	06:02:04	70.2	06:02:48
63.5	06:09:15	56.1	06:02:05	68.9	06:02:49
63.4	06:09:16	53.4	06:02:06	70.4	06:02:50
62.5	06:09:17	61.7	06:02:07	70.8	06:02:51

64.8	06:09:18	54.7	06:02:08	72.2	06:02:52
66.2	06:09:19	57.7	06:02:09	77.8	06:02:53
69.7	06:09:20	54.9	06:02:10	74.7	06:02:54
67.1	06:09:21	54.3	06:02:11	79.3	06:02:55
68.5	06:09:22	51	06:02:12	76.9	06:02:56
68.1	06:09:23	55.4	06:02:13	74.5	06:02:57
64.5	06:09:24	52.2	06:02:14	74.4	06:02:58
63.9	06:09:25	55.8	06:02:15	74	06:02:59
64.1	06:09:26	64.9	06:02:16	71.6	06:03:00
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65.2	06:09:28	55.8	06:02:18	69	06:03:02
63.9	06:09:29	57.2	06:02:19	69.2	06:03:03
63.7	06:09:30	55.1	06:02:20	71.3	06:03:04
63.7	06:09:31	67.3	06:02:21	70.3	06:03:05
61.5	06:09:32	69.9	06:02:22	69.9	06:03:06
62.1	06:09:33	60.8	06:02:23	73.7	06:03:07
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67.4	06:09:38	59.3	06:02:28	71.7	06:03:12
63.2	06:09:39	58	06:02:29	71.4	06:03:13
64.4	06:09:40	58.6	06:02:30	71.1	06:03:14
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62.1	06:09:44	60.2	06:02:34	72	06:03:18
65.1	06:09:45	79.5	06:02:35	76.3	06:03:19
72.9	06:09:46	63.9	06:02:36	74.8	06:03:20
68.7	06:09:47	64	06:02:37	70.6	06:03:21
67.4	06:09:48	64.3	06:02:38	72.7	06:03:22
65	06:09:49	65.5	06:02:39	73.7	06:03:23
65	06:09:50	65	06:02:40	73.3	06:03:24
64.3	06:09:51	67.4	06:02:41	71.2	06:03:25
63.6	06:09:52	67.8	06:02:42	71.3	06:03:26
63.2	06:09:53	79	06:02:43	70.4	06:03:27
61.6	06:09:54	71.2	06:02:44	71.3	06:03:28
62.2	06:09:55	67.8	06:02:45	71.2	06:03:29
63.9	06:09:56	67	06:02:46	71.8	06:03:30
66.2	06:09:57	61.8	06:02:47	72.6	06:03:31
66.6	06:09:58	60.4	06:02:48	69.4	06:03:32
62.1	06:09:59	61.9	06:02:49	69.7	06:03:33
61.6	06:10:00	61.6	06:02:50	72.2	06:03:34
63.2	06:10:01	59.9	06:02:51	71.9	06:03:35
65.7	06:10:02	59.1	06:02:52	70.5	06:03:36
64.1	06:10:03	58.7	06:02:53	68	06:03:37

61.9	06:10:04	58.2	06:02:54	66.1	06:03:38
62.2	06:10:05	57.9	06:02:55	65.7	06:03:39
61.7	06:10:06	59.2	06:02:56	62.5	06:03:40
61.4	06:10:07	59.2	06:02:57	75.3	06:03:41
61.4	06:10:08	56.7	06:02:58	62.1	06:03:42
62	06:10:09	57.2	06:02:59	65.9	06:03:43
63.1	06:10:10	58.1	06:03:00	68.5	06:03:44
62.6	06:10:11	58.8	06:03:01	71	06:03:45
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64.6	06:10:13	61.3	06:03:03	72.6	06:03:47
67.4	06:10:14	68.8	06:03:04	75.4	06:03:48
68.3	06:10:15	59.3	06:03:05	78.3	06:03:49
72.2	06:10:16	58.9	06:03:06	82	06:03:50
71.7	06:10:17	55.4	06:03:07	78.8	06:03:51
69.3	06:10:18	60.2	06:03:08	75.7	06:03:52
70.9	06:10:19	59.4	06:03:09	76.1	06:03:53
72.9	06:10:20	61.5	06:03:10	75.7	06:03:54
71.6	06:10:21	59.3	06:03:11	74.2	06:03:55
70.8	06:10:22	59	06:03:12	76.8	06:03:56
72.1	06:10:23	57.9	06:03:13	73	06:03:57
71.6	06:10:24	58.9	06:03:14	70.4	06:03:58
69.1	06:10:25	59	06:03:15	70	06:03:59
68.3	06:10:26	60.2	06:03:16	70.4	06:04:00
69.7	06:10:27	59.2	06:03:17	71.8	06:04:01
68.7	06:10:28	60.8	06:03:18	70.7	06:04:02
68.6	06:10:29	58.9	06:03:19	70.7	06:04:03
68.6	06:10:30	59	06:03:20	69.7	06:04:04
68.3	06:10:31	65.1	06:03:21	70.8	06:04:05
69.2	06:10:32	65.8	06:03:22	68.1	06:04:06
70.7	06:10:33	66.4	06:03:23	68.9	06:04:07
74.4	06:10:34	65.4	06:03:24	68.5	06:04:08
72.4	06:10:35	62.9	06:03:25	71.8	06:04:09
72.1	06:10:36	76.5	06:03:26	74.7	06:04:10
71.5	06:10:37	59	06:03:27	74.8	06:04:11
68.1	06:10:38	58.5	06:03:28	73.9	06:04:12
67.9	06:10:39	60.6	06:03:29	73	06:04:13
66.9	06:10:40	60.7	06:03:30	73.5	06:04:14
64.6	06:10:41	58.3	06:03:31	72.9	06:04:15
63	06:10:42	60.5	06:03:32	72.4	06:04:16
65.5	06:10:43	67.6	06:03:33	73.4	06:04:17
63.1	06:10:44	63.5	06:03:34	73.8	06:04:18
64.6	06:10:45	63.4	06:03:35	73.8	06:04:19
64.9	06:10:46	64.5	06:03:36	71.5	06:04:20
64.4	06:10:47	70.1	06:03:37	69.9	06:04:21
62.5	06:10:48	71.6	06:03:38	69.4	06:04:22
63.1	06:10:49	66.4	06:03:39	69.9	06:04:23

62.9	06:10:50	67.9	06:03:40	67.9	06:04:24
64.6	06:10:51	71.9	06:03:41	67	06:04:25
64	06:10:52	66.5	06:03:42	67.3	06:04:26
62.9	06:10:53	69.7	06:03:43	67.2	06:04:27
64.1	06:10:54	72.8	06:03:44	66.4	06:04:28
64.9	06:10:55	67.4	06:03:45	67.5	06:04:29
64.8	06:10:56	69.7	06:03:46	68.6	06:04:30
65.7	06:10:57	75.3	06:03:47	67.1	06:04:31
66.6	06:10:58	64.9	06:03:48	68.8	06:04:32
67.1	06:10:59	62.8	06:03:49	68.2	06:04:33
64.4	06:11:00	61.1	06:03:50	66.6	06:04:34
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61.2	06:11:02	58	06:03:52	66.5	06:04:36
58.9	06:11:03	57.7	06:03:53	68.3	06:04:37
56.5	06:11:04	59.3	06:03:54	68.8	06:04:38
57.5	06:11:05	57.4	06:03:55	73.2	06:04:39
58.3	06:11:06	60.5	06:03:56	76.3	06:04:40
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56.8	06:11:08	58.7	06:03:58	72.8	06:04:42
57.9	06:11:09	58.3	06:03:59	72	06:04:43
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57.5	06:11:14	69	06:04:04	68.7	06:04:48
58.7	06:11:15	65.9	06:04:05	71.3	06:04:49
59.9	06:11:16	57.9	06:04:06	69.2	06:04:50
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63.4	06:11:18	67.8	06:04:08	72.4	06:04:52
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62.5	06:11:24	55.2	06:04:14	69.3	06:04:58
63.8	06:11:25	51.3	06:04:15	70.7	06:04:59
66.7	06:11:26	67.1	06:04:16	70.1	06:05:00
70.7	06:11:27	71.1	06:04:17	71.2	06:05:01
69.6	06:11:28	58.3	06:04:18	72.6	06:05:02
65.1	06:11:29	58.8	06:04:19	73.2	06:05:03
63.6	06:11:30	54	06:04:20	74	06:05:04
64.4	06:11:31	69.3	06:04:21	75.2	06:05:05
64.3	06:11:32	65.3	06:04:22	74.6	06:05:06
69.8	06:11:33	61.6	06:04:23	79.6	06:05:07
66	06:11:34	69.6	06:04:24	82.4	06:05:08
66.8	06:11:35	69.6	06:04:25	85.8	06:05:09

68.1	06:11:36	65.1	06:04:26	91	06:05:10
67.9	06:11:37	61.7	06:04:27	89.2	06:05:11
69.2	06:11:38	69.2	06:04:28	81	06:05:12
66.7	06:11:39	58	06:04:29	72.6	06:05:13
68.5	06:11:40	59.7	06:04:30	72	06:05:14
68.7	06:11:41	69.8	06:04:31	75.4	06:05:15
70.7	06:11:42	63.6	06:04:32	75.3	06:05:16
72.7	06:11:43	66.6	06:04:33	75.9	06:05:17
68.1	06:11:44	58.8	06:04:34	80.6	06:05:18
65.6	06:11:45	58.7	06:04:35	77.5	06:05:19
67	06:11:46	57	06:04:36	75.4	06:05:20
70.7	06:11:47	58.1	06:04:37	73.2	06:05:21
65.2	06:11:48	61.2	06:04:38	71.4	06:05:22
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63	06:11:50	55	06:04:40	70.8	06:05:24
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63.9	06:11:52	58.4	06:04:42	74	06:05:26
65.5	06:11:53	59.2	06:04:43	71.4	06:05:27
61.1	06:11:54	56.6	06:04:44	68.7	06:05:28
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62	06:11:56	70.9	06:04:46	71.7	06:05:30
66.9	06:11:57	61.7	06:04:47	72.7	06:05:31
63.2	06:11:58	58.4	06:04:48	69.5	06:05:32
66	06:11:59	58	06:04:49	68.4	06:05:33
64.2	06:12:00	58.1	06:04:50	68.8	06:05:34
64.9	06:12:01	69.1	06:04:51	70.1	06:05:35
63	06:12:02	65.7	06:04:52	71.2	06:05:36
84.6	06:12:03	64.2	06:04:53	71.9	06:05:37
64.3	06:12:04	59.8	06:04:54	72.4	06:05:38
63.2	06:12:05	61.3	06:04:55	73.1	06:05:39
63.9	06:12:06	58.5	06:04:56	71.7	06:05:40
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67.8	06:12:08	55.8	06:04:58	70.1	06:05:42
64.5	06:12:09	73.8	06:04:59	69.6	06:05:43
66.2	06:12:10	71.6	06:05:00	68.9	06:05:44
73	06:12:11	57.4	06:05:01	68.9	06:05:45
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66.7	06:12:13	63.4	06:05:03	69.9	06:05:47
66	06:12:14	67.2	06:05:04	68.1	06:05:48
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71.4	06:12:20	71.2	06:05:10	72.7	06:05:54
67.7	06:12:21	65.7	06:05:11	71.9	06:05:55

61.9	06:12:22	60.2	06:05:12	67.8	06:05:56
68.3	06:12:23	74.6	06:05:13	69	06:05:57
66.5	06:12:24	69	06:05:14	72.2	06:05:58
75.1	06:12:25	62.7	06:05:15	73.9	06:05:59
67.6	06:12:26	74.9	06:05:16	74.5	06:06:00
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67.2	06:12:33	60.3	06:05:23	69.1	06:06:07
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69.4	06:12:41	53.9	06:05:31	68.9	06:06:15
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66.9	06:12:43	59.9	06:05:33	66.4	06:06:17
66.3	06:12:44	57	06:05:34	68.8	06:06:18
65.6	06:12:45	51.7	06:05:35	70.2	06:06:19
67.9	06:12:46	51.3	06:05:36	72.6	06:06:20
66.3	06:12:47	53.9	06:05:37	73.5	06:06:21
68	06:12:48	54	06:05:38	72	06:06:22
64.1	06:12:49	56.4	06:05:39	71.1	06:06:23
67.2	06:12:50	67.8	06:05:40	69.5	06:06:24
65.8	06:12:51	68.1	06:05:41	68.4	06:06:25
65.7	06:12:52	65.3	06:05:42	69	06:06:26
61.6	06:12:53	58.9	06:05:43	73.2	06:06:27
64.5	06:12:54	55.3	06:05:44	75.1	06:06:28
63.7	06:12:55	52.4	06:05:45	76	06:06:29
61.3	06:12:56	53.1	06:05:46	73.8	06:06:30
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63.5	06:12:58	60.6	06:05:48	70.6	06:06:32
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65.9	06:13:02	59.1	06:05:52	73.7	06:06:36
69.3	06:13:03	54.1	06:05:53	77.7	06:06:37
77.8	06:13:04	51.7	06:05:54	78.6	06:06:38
61.6	06:13:05	56.7	06:05:55	88.1	06:06:39
60.2	06:13:06	52.3	06:05:56	90.1	06:06:40
62	06:13:07	52.2	06:05:57	82	06:06:41

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58.1	06:13:10	55	06:06:00	66.5	06:06:44
58.2	06:13:11	57.2	06:06:01	66.3	06:06:45
58	06:13:12	55.7	06:06:02	67.4	06:06:46
61.4	06:13:13	56.8	06:06:03	67.9	06:06:47
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62.4	06:13:16	60.3	06:06:06	67.1	06:06:50
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62.9	06:13:20	50.7	06:06:10	71.5	06:06:54
63.9	06:13:21	50	06:06:11	71.9	06:06:55
63.2	06:13:22	48.6	06:06:12	72.9	06:06:56
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62.8	06:13:24	50.2	06:06:14	75.3	06:06:58
62.6	06:13:25	56.3	06:06:15	77.2	06:06:59
63.2	06:13:26	51.3	06:06:16	80.2	06:07:00
63.9	06:13:27	56.1	06:06:17	81.3	06:07:01
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62.1	06:13:33	51.8	06:06:23	67.9	06:07:07
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68.6	06:13:40	60.2	06:06:30	73	06:07:14
68.9	06:13:41	64.4	06:06:31	73.1	06:07:15
72.1	06:13:42	60.9	06:06:32	74.5	06:07:16
68.7	06:13:43	57.2	06:06:33	70.4	06:07:17
68.6	06:13:44	55.9	06:06:34	72.4	06:07:18
70.4	06:13:45	56.7	06:06:35	74.7	06:07:19
71.9	06:13:46	53.2	06:06:36	68.8	06:07:20
65.4	06:13:47	55.5	06:06:37	69.8	06:07:21
65.9	06:13:48	69.4	06:06:38	72.3	06:07:22
67.2	06:13:49	52.6	06:06:39	69.6	06:07:23
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57.3	06:13:59	70.6	06:06:49	70.4	06:07:33
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67.1	06:14:05	70.3	06:06:55	76.3	06:07:39
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66.1	06:14:07	70.5	06:06:57	88.3	06:07:41
68	06:14:08	69.8	06:06:58	69.3	06:07:42
67.7	06:14:09	70	06:06:59	69.3	06:07:43
67.4	06:14:10	71.2	06:07:00	70.2	06:07:44
68.1	06:14:11	70	06:07:01	73	06:07:45
69.2	06:14:12	71.2	06:07:02	73.3	06:07:46
72	06:14:13	70.4	06:07:03	74.1	06:07:47
72.2	06:14:14	71.7	06:07:04	69.3	06:07:48
75.6	06:14:15	69.5	06:07:05	68.8	06:07:49
72.5	06:14:16	70.1	06:07:06	67.8	06:07:50
71.4	06:14:17	70	06:07:07	67.9	06:07:51
73.7	06:14:18	70.1	06:07:08	68.9	06:07:52
73	06:14:19	69.8	06:07:09	69.2	06:07:53
73.3	06:14:20	70.2	06:07:10	70.3	06:07:54
72.1	06:14:21	69.5	06:07:11	73	06:07:55
70.4	06:14:22	69.5	06:07:12	70.3	06:07:56
68.7	06:14:23	69.8	06:07:13	70.2	06:07:57
69.2	06:14:24	71.1	06:07:14	70.4	06:07:58
71	06:14:25	71.8	06:07:15	71	06:07:59
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69.8	06:14:40	69.9	06:07:30	65.8	06:08:14
67.3	06:14:41	69.3	06:07:31	65.9	06:08:15
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64.9	06:14:46	71	06:07:36	68	06:08:20
63.9	06:14:47	71.7	06:07:37	68.8	06:08:21
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62.4	06:14:59	70.6	06:07:49	80.4	06:08:33
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62.2	06:15:04	67.3	06:07:54	73.1	06:08:38
62.6	06:15:05	68.6	06:07:55	75.1	06:08:39
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59.2	06:15:08	67.1	06:07:58	75.3	06:08:42
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61.2	06:15:15	69.6	06:08:05	75	06:08:49
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63.1	06:15:24	69	06:08:14	74.8	06:08:58
63.7	06:15:25	68.8	06:08:15	72.7	06:08:59

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63.4	06:15:52	68.8	06:08:42	71.8	06:09:26
62.6	06:15:53	69.7	06:08:43	71.7	06:09:27
62.3	06:15:54	70.3	06:08:44	72.4	06:09:28
62.7	06:15:55	71.1	06:08:45	72.8	06:09:29
62.8	06:15:56	72.8	06:08:46	71.5	06:09:30
64.9	06:15:57	74.6	06:08:47	71.2	06:09:31
67.1	06:15:58	75.5	06:08:48	72.3	06:09:32
70	06:15:59	75.6	06:08:49	71.9	06:09:33
68.4	06:16:00	77.7	06:08:50	76.4	06:09:34
68.8	06:16:01	77.3	06:08:51	78.1	06:09:35
69.9	06:16:02	78.2	06:08:52	77.7	06:09:36
68.8	06:16:03	79.1	06:08:53	80.1	06:09:37
72.9	06:16:04	81.3	06:08:54	82.2	06:09:38
76.1	06:16:05	80	06:08:55	75.6	06:09:39
79.2	06:16:06	78.9	06:08:56	73.5	06:09:40
75.3	06:16:07	77.1	06:08:57	72.2	06:09:41
78.9	06:16:08	76.3	06:08:58	73.8	06:09:42
77.5	06:16:09	74.2	06:08:59	71.8	06:09:43
83.2	06:16:10	73.3	06:09:00	70.1	06:09:44
78	06:16:11	71.9	06:09:01	72.5	06:09:45

76.6	06:16:12	71.2	06:09:02	71.6	06:09:46
75.8	06:16:13	70.6	06:09:03	72.4	06:09:47
70.3	06:16:14	68.8	06:09:04	74.9	06:09:48
68.4	06:16:15	70.1	06:09:05	73.3	06:09:49
70.3	06:16:16	69.3	06:09:06	72.1	06:09:50
69.3	06:16:17	68.4	06:09:07	71.4	06:09:51
68.5	06:16:18	69.2	06:09:08	70.1	06:09:52
68.1	06:16:19	68.8	06:09:09	68.6	06:09:53
65.9	06:16:20	70.9	06:09:10	68.8	06:09:54
64.8	06:16:21	72.2	06:09:11	68.7	06:09:55
64.7	06:16:22	74.5	06:09:12	65.9	06:09:56
66.2	06:16:23	66.5	06:09:13	67.1	06:09:57
67.3	06:16:24	69.5	06:09:14	68.4	06:09:58
66.9	06:16:25	68.1	06:09:15	69.6	06:09:59
68.1	06:16:26	68.6	06:09:16	70.4	06:10:00
70.1	06:16:27	71.8	06:09:17	73	06:10:01
73.9	06:16:28	67.6	06:09:18	72.3	06:10:02
74.9	06:16:29	68.6	06:09:19	72.3	06:10:03
74.2	06:16:30	68.7	06:09:20	73.1	06:10:04
73.2	06:16:31	78.3	06:09:21	72.4	06:10:05
72	06:16:32	74.3	06:09:22	71.7	06:10:06
71.8	06:16:33	70.6	06:09:23	70.8	06:10:07
69.3	06:16:34	67.6	06:09:24	73.8	06:10:08
70.1	06:16:35	67.8	06:09:25	74.1	06:10:09
70.7	06:16:36	67.8	06:09:26	81.7	06:10:10
70.2	06:16:37	67.7	06:09:27	87.9	06:10:11
70.1	06:16:38	67.5	06:09:28	82.3	06:10:12
71.9	06:16:39	67.9	06:09:29	81.2	06:10:13
71.8	06:16:40	67.8	06:09:30	78.2	06:10:14
70.8	06:16:41	67.6	06:09:31	78.6	06:10:15
71.3	06:16:42	68.9	06:09:32	74	06:10:16
71.5	06:16:43	75.7	06:09:33	75.8	06:10:17
67.4	06:16:44	71.9	06:09:34	74.6	06:10:18
68.5	06:16:45	73.4	06:09:35	73	06:10:19
67.4	06:16:46	67.7	06:09:36	78.9	06:10:20
67.6	06:16:47	67.8	06:09:37	76.4	06:10:21
66.4	06:16:48	67.8	06:09:38	75.9	06:10:22
68.6	06:16:49	67.6	06:09:39	73.6	06:10:23
67.1	06:16:50	68.6	06:09:40	83.1	06:10:24
66.8	06:16:51	67.5	06:09:41	71.5	06:10:25
65.4	06:16:52	68	06:09:42	70.5	06:10:26
64.7	06:16:53	69.6	06:09:43	67.5	06:10:27
65.2	06:16:54	72.1	06:09:44	68.1	06:10:28
64.5	06:16:55	71.5	06:09:45	69.8	06:10:29
64.2	06:16:56	70.1	06:09:46	70.3	06:10:30
64.8	06:16:57	69.1	06:09:47	67.9	06:10:31

64.5	06:16:58	69.1	06:09:48	73.8	06:10:32
62	06:16:59	69	06:09:49	76.3	06:10:33
62.4	06:17:00	67.9	06:09:50	71.9	06:10:34
63.3	06:17:01	68	06:09:51	71.3	06:10:35
64.6	06:17:02	69.6	06:09:52	74.7	06:10:36
62.4	06:17:03	72.1	06:09:53	73.3	06:10:37
60.8	06:17:04	71.5	06:09:54	68.2	06:10:38
61.9	06:17:05	78.3	06:09:55	66.6	06:10:39
60.1	06:17:06	74.3	06:09:56	67.1	06:10:40
63.8	06:17:07	70.6	06:09:57	65.2	06:10:41
64.8	06:17:08	67.6	06:09:58	61.8	06:10:42
64.2	06:17:09	67.8	06:09:59	66.5	06:10:43
65.8	06:17:10	67.8	06:10:00	67.8	06:10:44
67.2	06:17:11	67.8	06:10:01	73.9	06:10:45
65.6	06:17:12	67.7	06:10:02	74.3	06:10:46
67.1	06:59:11	63	07:00:00	70	06:59:58
65.4	06:59:12	58.9	07:00:01	70.3	06:59:59
64.1	06:59:13	56.6	07:00:02	72.7	07:00:00
77.1	06:59:14	54.3	07:00:03	72.7	07:00:01
64.5	06:59:15	53.4	07:00:04	73.5	07:00:02
60.5	06:59:16	53.7	07:00:05	71.2	07:00:03
69.9	06:59:17	53.1	07:00:06	73.8	07:00:04
79.4	06:59:18	55.3	07:00:07	76.3	07:00:05
78.2	06:59:19	62.4	07:00:08	77.6	07:00:06
78.5	06:59:20	54.9	07:00:09	81.4	07:00:07
77.8	06:59:21	49.5	07:00:10	79.6	07:00:08
66.3	06:59:22	53	07:00:11	75.3	07:00:09
77.2	06:59:23	53.9	07:00:12	72.7	07:00:10
73.3	06:59:24	50.3	07:00:13	74.6	07:00:11
81.7	06:59:25	56.4	07:00:14	73.6	07:00:12
63.8	06:59:26	48.9	07:00:15	72.5	07:00:13
68.5	06:59:27	52.8	07:00:16	76.2	07:00:14
67.2	06:59:28	50.2	07:00:17	72.5	07:00:15
66.5	06:59:29	49.7	07:00:18	72.9	07:00:16
67.4	06:59:30	63.6	07:00:19	74.2	07:00:17
70.2	06:59:31	51.9	07:00:20	76.8	07:00:18
78.2	06:59:32	60.2	07:00:21	75.4	07:00:19
65.9	06:59:33	53.6	07:00:22	75.3	07:00:20
65.8	06:59:34	53.9	07:00:23	72.1	07:00:21
67.1	06:59:35	55.3	07:00:24	70	07:00:22
76.4	06:59:36	48.9	07:00:25	69.2	07:00:23
65.8	06:59:37	47.7	07:00:26	69	07:00:24
71.5	06:59:38	43	07:00:27	71.1	07:00:25
82	06:59:39	41.9	07:00:28	68.7	07:00:26
65	06:59:40	40.9	07:00:29	68	07:00:27
66.4	06:59:41	40.2	07:00:30	68.8	07:00:28

67.8	06:59:42	39.6	07:00:31	70.1	07:00:29
65.7	06:59:43	39.3	07:00:32	74	07:00:30
65.6	06:59:44	40	07:00:33	72.3	07:00:31
64.6	06:59:45	39.5	07:00:34	76.1	07:00:32
63.6	06:59:46	39.4	07:00:35	77.3	07:00:33
64.4	06:59:47	38.3	07:00:36	78.3	07:00:34
65.4	06:59:48	38.2	07:00:37	72.3	07:00:35
65.8	06:59:49	38.2	07:00:38	69.1	07:00:36
64.2	06:59:50	40	07:00:39	66.6	07:00:37
66.8	06:59:51	39.7	07:00:40	65.4	07:00:38
77.8	06:59:52	38.8	07:00:41	65.7	07:00:39
73.6	06:59:53	38.9	07:00:42	67	07:00:40
70	06:59:54	40.1	07:00:43	70.5	07:00:41
77.2	06:59:55	40	07:00:44	70.3	07:00:42
64.9	06:59:56	39.5	07:00:45	69.4	07:00:43
65.1	06:59:57	39.5	07:00:46	69.2	07:00:44
64.5	06:59:58	38.3	07:00:47	67.9	07:00:45
89.8	06:59:59	39.6	07:00:48	68.1	07:00:46
81.2	07:00:00	39.5	07:00:49	69.5	07:00:47
64.6	07:00:01	39.5	07:00:50	71.9	07:00:48
67.7	07:00:02	41.6	07:00:51	72.8	07:00:49
74.8	07:00:03	40.6	07:00:52	74.1	07:00:50
71	07:00:04	39.7	07:00:53	73.1	07:00:51
77.4	07:00:05	43.8	07:00:54	72.3	07:00:52
85.4	07:00:06	40	07:00:55	69.9	07:00:53
89.2	07:00:07	39.5	07:00:56	68.5	07:00:54
86.3	07:00:08	40.3	07:00:57	70.7	07:00:55
67.6	07:00:09	41.7	07:00:58	71.1	07:00:56
65.2	07:00:10	43.2	07:00:59	71.7	07:00:57
72.7	07:00:11	44.5	07:01:00	71.2	07:00:58
66.1	07:00:12	46.3	07:01:01	70.4	07:00:59
66.7	07:00:13	49.7	07:01:02	71.9	07:01:00
74.5	07:00:14	55	07:01:03	70.1	07:01:01
70.3	07:00:15	52.4	07:01:04	70.1	07:01:02
65.2	07:00:16	52.3	07:01:05	68.4	07:01:03
68.2	07:00:17	52.7	07:01:06	69.2	07:01:04
70.5	07:00:18	53.8	07:01:07	70.2	07:01:05
73.8	07:00:19	58	07:01:08	72.7	07:01:06
68.7	07:00:20	58.3	07:01:09	73.2	07:01:07
67.4	07:00:21	50.4	07:01:10	74.7	07:01:08
68.8	07:00:22	46.7	07:01:11	73.7	07:01:09
68.8	07:00:23	41.5	07:01:12	73.2	07:01:10
66	07:00:24	40.8	07:01:13	72.5	07:01:11
67.8	07:00:25	40.9	07:01:14	70.6	07:01:12
66	07:00:26	42	07:01:15	71	07:01:13
65.2	07:00:27	39.4	07:01:16	69.5	07:01:14

68.1	07:00:28	44.1	07:01:17	68.5	07:01:15
70.9	07:00:29	42.3	07:01:18	70.2	07:01:16
69.3	07:00:30	39.7	07:01:19	70.1	07:01:17
65.1	07:00:31	43.3	07:01:20	70.4	07:01:18
65.5	07:00:32	40.6	07:01:21	69.1	07:01:19
71.7	07:00:33	40.4	07:01:22	71.7	07:01:20
63.9	07:00:34	39.8	07:01:23	72.2	07:01:21
67.9	07:00:35	40.2	07:01:24	73.2	07:01:22
73.6	07:00:36	40.6	07:01:25	75.8	07:01:23
75.7	07:00:37	41.4	07:01:26	76.6	07:01:24
68.5	07:00:38	44.9	07:01:27	74.1	07:01:25
74.8	07:00:39	45.4	07:01:28	76.2	07:01:26
73.2	07:00:40	47.6	07:01:29	75.6	07:01:27
71.5	07:00:41	42.8	07:01:30	75.1	07:01:28
87.7	07:00:42	42.8	07:01:31	76.3	07:01:29
75.8	07:00:43	43.8	07:01:32	74.5	07:01:30
68.4	07:00:44	44	07:01:33	72.6	07:01:31
74.9	07:00:45	46.3	07:01:34	71	07:01:32
75.1	07:00:46	47.9	07:01:35	72.2	07:01:33
75.4	07:00:47	46.9	07:01:36	70	07:01:34
72.1	07:00:48	48.9	07:01:37	69.2	07:01:35
76.3	07:00:49	43.8	07:01:38	83.9	07:01:36
72.6	07:00:50	41.2	07:01:39	72.1	07:01:37
74.3	07:00:51	41.1	07:01:40	71.2	07:01:38
73.6	07:00:52	41	07:01:41	68.6	07:01:39
72.2	07:00:53	41.7	07:01:42	67.8	07:01:40
72.7	07:00:54	41.3	07:01:43	69.1	07:01:41
72.1	07:00:55	39.7	07:01:44	69.8	07:01:42
77.5	07:00:56	39.9	07:01:45	73.9	07:01:43
71.2	07:00:57	39	07:01:46	70.6	07:01:44
73.2	07:00:58	42	07:01:47	71.1	07:01:45
67.8	07:00:59	41.7	07:01:48	72.1	07:01:46
65.1	07:01:00	44.9	07:01:49	72.6	07:01:47
66.7	07:01:01	43.4	07:01:50	72.5	07:01:48
72.4	07:01:02	46.3	07:01:51	72.5	07:01:49
66.8	07:01:03	46	07:01:52	71.1	07:01:50
68.1	07:01:04	50.9	07:01:53	71.7	07:01:51
65.6	07:01:05	50	07:01:54	71.5	07:01:52
63.8	07:01:06	54	07:01:55	71.6	07:01:53
72	07:01:07	56.6	07:01:56	71.5	07:01:54
71.1	07:01:08	61.8	07:01:57	70.5	07:01:55
70.3	07:01:09	53.8	07:01:58	71.7	07:01:56
67.8	07:01:10	51.4	07:01:59	73	07:01:57
66.8	07:01:11	45.5	07:02:00	73.4	07:01:58
77	07:01:12	44.7	07:02:01	77.8	07:01:59
70.5	07:01:13	51	07:02:02	74	07:02:00

72.9	07:01:14	50.4	07:02:03	72	07:02:01
66.7	07:01:15	48.5	07:02:04	72.1	07:02:02
66.2	07:01:16	54.9	07:02:05	70.9	07:02:03
66	07:01:17	55.2	07:02:06	71.6	07:02:04
74.7	07:01:18	50.9	07:02:07	69.6	07:02:05
71.1	07:01:19	48.9	07:02:08	70.5	07:02:06
67	07:01:20	43.3	07:02:09	71.4	07:02:07
65.5	07:01:21	45.7	07:02:10	72	07:02:08
68.5	07:01:22	46.6	07:02:11	74.3	07:02:09
69	07:01:23	47.5	07:02:12	73	07:02:10
77.6	07:01:24	54.7	07:02:13	73.6	07:02:11
62.5	07:01:25	55.9	07:02:14	72	07:02:12
73.7	07:01:26	52.3	07:02:15	71.3	07:02:13
67.5	07:01:27	47.9	07:02:16	72	07:02:14
69.9	07:01:28	43.8	07:02:17	72.7	07:02:15
82	07:01:29	41.4	07:02:18	73.1	07:02:16
82.5	07:01:30	40.3	07:02:19	71	07:02:17
61.9	07:01:31	40.2	07:02:20	73.5	07:02:18
69.8	07:01:32	40.4	07:02:21	71.9	07:02:19
78.4	07:01:33	40.2	07:02:22	71.2	07:02:20
78.6	07:01:34	40.9	07:02:23	72.6	07:02:21
71	07:01:35	39.6	07:02:24	71.7	07:02:22
66.3	07:01:36	40.7	07:02:25	71.1	07:02:23
71.8	07:01:37	39.7	07:02:26	70.6	07:02:24
69.4	07:01:38	39.3	07:02:27	69.1	07:02:25
68.6	07:01:39	39.3	07:02:28	71.1	07:02:26
69.7	07:01:40	38.9	07:02:29	71.6	07:02:27
70.7	07:01:41	40.2	07:02:30	74.3	07:02:28
72.3	07:01:42	39.1	07:02:31	68.2	07:02:29
71	07:01:43	39.5	07:02:32	68.8	07:02:30
70.6	07:01:44	39.4	07:02:33	68.2	07:02:31
66.7	07:01:45	38.5	07:02:34	68.8	07:02:32
75.3	07:01:46	38.6	07:02:35	67.8	07:02:33
76.4	07:01:47	39	07:02:36	70.7	07:02:34
69.1	07:01:48	39.1	07:02:37	70.1	07:02:35
69.9	07:01:49	40.1	07:02:38	72	07:02:36
65.7	07:01:50	40.5	07:02:39	69.4	07:02:37
65.5	07:01:51	40.5	07:02:40	69.5	07:02:38
64.3	07:01:52	42.3	07:02:41	70.1	07:02:39
63.2	07:01:53	42.3	07:02:42	70	07:02:40
63.2	07:01:54	40.7	07:02:43	73.9	07:02:41
64.9	07:01:55	41.3	07:02:44	73.5	07:02:42
63.9	07:01:56	42.2	07:02:45	71.4	07:02:43
62.3	07:01:57	41.1	07:02:46	71.4	07:02:44
63.1	07:01:58	41.1	07:02:47	71.9	07:02:45
63	07:01:59	39.3	07:02:48	72.2	07:02:46

65.2	07:02:00	39.6	07:02:49	76.1	07:02:47
67.5	07:02:01	40.1	07:02:50	74.6	07:02:48
65.8	07:02:02	40.1	07:02:51	73.4	07:02:49
69.8	07:02:03	45	07:02:52	73.4	07:02:50
67.1	07:02:04	45.3	07:02:53	75	07:02:51
84.1	07:02:05	42	07:02:54	73	07:02:52
68.3	07:02:06	43.5	07:02:55	73.7	07:02:53
65.3	07:02:07	42.2	07:02:56	73.4	07:02:54
83.6	07:02:08	41.1	07:02:57	72.8	07:02:55
66.1	07:02:09	40.7	07:02:58	72	07:02:56
67	07:02:10	42.2	07:02:59	71.9	07:02:57
82.7	07:02:11	43.6	07:03:00	70.4	07:02:58
82.4	07:02:12	44.8	07:03:01	70.1	07:02:59
78.8	07:02:13	47.2	07:03:02	71.2	07:03:00
74.9	07:02:14	50.8	07:03:03	70.1	07:03:01
67.6	07:02:15	55	07:03:04	71	07:03:02
65.7	07:02:16	58	07:03:05	71.4	07:03:03
71.6	07:02:17	48.9	07:03:06	76.2	07:03:04
69.6	07:02:18	49.1	07:03:07	76.4	07:03:05
73.5	07:02:19	51.5	07:03:08	74.7	07:03:06
66.7	07:02:20	51	07:03:09	73.4	07:03:07
65	07:02:21	47.2	07:03:10	73.9	07:03:08
68.3	07:02:22	45.6	07:03:11	73.5	07:03:09
65.4	07:02:23	46.4	07:03:12	72.9	07:03:10
65.2	07:02:24	47.8	07:03:13	76.8	07:03:11
73.1	07:02:25	48.1	07:03:14	72.7	07:03:12
81.9	07:02:26	43.2	07:03:15	71.2	07:03:13
92.2	07:02:27	43.7	07:03:16	71.9	07:03:14
73.1	07:02:28	43.9	07:03:17	74	07:03:15
76.1	07:02:29	45.7	07:03:18	73.6	07:03:16
91.8	07:02:30	44.1	07:03:19	72.2	07:03:17
68.1	07:02:31	43.8	07:03:20	72	07:03:18
68.3	07:02:32	47.7	07:03:21	73.3	07:03:19
83.9	07:02:33	47.7	07:03:22	75.1	07:03:20
72.2	07:02:34	56.8	07:03:23	74.8	07:03:21
68.5	07:02:35	51.2	07:03:24	72.7	07:03:22
65.8	07:02:36	60	07:03:25	71.7	07:03:23
67.6	07:02:37	56.1	07:03:26	71.1	07:03:24
67.7	07:02:38	51.1	07:03:27	72.1	07:03:25
69.5	07:02:39	48.1	07:03:28	71.6	07:03:26
75.9	07:02:40	48.2	07:03:29	71.8	07:03:27
76.4	07:02:41	49.8	07:03:30	73.2	07:03:28
74.5	07:02:42	52.7	07:03:31	73.6	07:03:29
68	07:02:43	56.6	07:03:32	70.3	07:03:30
74.6	07:02:44	52.2	07:03:33	69.4	07:03:31
70.3	07:02:45	48.5	07:03:34	70.2	07:03:32

78.7	07:02:46	43.9	07:03:35	72	07:03:33
78	07:02:47	43	07:03:36	72.6	07:03:34
63.7	07:02:48	42	07:03:37	74.3	07:03:35
65.1	07:02:49	41.6	07:03:38	72.2	07:03:36
62.8	07:02:50	41	07:03:39	68.9	07:03:37
69.9	07:02:51	41.4	07:03:40	69	07:03:38
81.7	07:02:52	40.8	07:03:41	70.9	07:03:39
73.8	07:02:53	45.8	07:03:42	72.7	07:03:40
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62.4	07:02:56	46.6	07:03:45	71.9	07:03:43
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61.8	07:03:00	47.4	07:03:49	68.4	07:03:47
63.6	07:03:01	48.2	07:03:50	68.3	07:03:48
72.6	07:03:02	47.8	07:03:51	69.2	07:03:49
75.9	07:03:03	49.9	07:03:52	67.1	07:03:50
66.2	07:03:04	51.2	07:03:53	66.6	07:03:51
71.9	07:03:05	52.5	07:03:54	68.8	07:03:52
68.8	07:03:06	54.4	07:03:55	67.4	07:03:53
66.5	07:03:07	53.9	07:03:56	68.1	07:03:54
68	07:03:08	52.5	07:03:57	67.7	07:03:55
65.1	07:03:09	54.3	07:03:58	70	07:03:56
76.3	07:03:10	52.8	07:03:59	71.4	07:03:57
64.4	07:03:11	49.7	07:04:00	73.2	07:03:58
83.5	07:03:12	48.3	07:04:01	74.7	07:03:59
86.9	07:03:13	49.3	07:04:02	78.2	07:04:00
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73.5	07:03:18	54.1	07:04:07	69.9	07:04:05
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68.2	07:03:38	63	07:04:27	75.8	07:04:25
67.7	07:03:39	54.2	07:04:28	76.6	07:04:26
66.5	07:03:40	48.6	07:04:29	76.1	07:04:27
82.2	07:03:41	51.7	07:04:30	76.1	07:04:28
65.2	07:03:42	49.2	07:04:31	75.9	07:04:29
74	07:03:43	50.8	07:04:32	74.3	07:04:30
71.7	07:03:44	52.5	07:04:33	73.5	07:04:31
67.7	07:03:45	58.2	07:04:34	74.2	07:04:32
66.2	07:03:46	55.5	07:04:35	74.2	07:04:33
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71.1	07:03:48	44.6	07:04:37	71.5	07:04:35
71.7	07:03:49	42.5	07:04:38	70.5	07:04:36
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66.9	07:03:51	44.4	07:04:40	68	07:04:38
66.3	07:03:52	44.6	07:04:41	71.3	07:04:39
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67.9	07:03:54	41.5	07:04:43	72.9	07:04:41
67.6	07:03:55	40.6	07:04:44	72.5	07:04:42
86.1	07:03:56	42.1	07:04:45	82.1	07:04:43
75.4	07:03:57	40.7	07:04:46	80.5	07:04:44
68.6	07:03:58	44.2	07:04:47	69.4	07:04:45
72.9	07:03:59	40	07:04:48	71.7	07:04:46
74.2	07:04:00	43.9	07:04:49	70.6	07:04:47
72.5	07:04:01	41.8	07:04:50	70.3	07:04:48
73.5	07:04:02	42.9	07:04:51	70.1	07:04:49
67.2	07:04:03	42.6	07:04:52	71.6	07:04:50
69	07:04:04	45	07:04:53	71.3	07:04:51
71.6	07:04:05	44.8	07:04:54	78.7	07:04:52
65.5	07:04:06	42.9	07:04:55	73.2	07:04:53
71.4	07:04:07	43.5	07:04:56	74.8	07:04:54
66.2	07:04:08	45.4	07:04:57	74.4	07:04:55
71.8	07:04:09	49.5	07:04:58	75.9	07:04:56
69.4	07:04:10	51.5	07:04:59	78.1	07:04:57
66.6	07:04:11	48.7	07:05:00	82.8	07:04:58
79.5	07:04:12	51.1	07:05:01	77.3	07:04:59
79.2	07:04:13	45.1	07:05:02	76.3	07:05:00
69.9	07:04:14	45.3	07:05:03	73	07:05:01
66.1	07:04:15	45.1	07:05:04	72.1	07:05:02
66.7	07:04:16	47.5	07:05:05	72.4	07:05:03
69.3	07:04:17	50.5	07:05:06	71.5	07:05:04

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69.6	07:04:21	48.7	07:05:10	75.8	07:05:08
67.1	07:04:22	51.7	07:05:11	83.3	07:05:09
71	07:04:23	50.4	07:05:12	80.9	07:05:10
71.2	07:04:24	50	07:05:13	79.6	07:05:11
66.8	07:04:25	52.3	07:05:14	81.7	07:05:12
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69.6	07:04:29	57.8	07:05:18	79	07:05:16
75.1	07:04:30	58.9	07:05:19	77.9	07:05:17
72.3	07:04:31	60	07:05:20	76.7	07:05:18
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67.2	07:04:33	60.6	07:05:22	75.9	07:05:20
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68.9	07:04:36	61.5	07:05:25	77.7	07:05:23
72.6	07:04:37	64.1	07:05:26	76.9	07:05:24
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74.4	07:04:42	56.5	07:05:31	74.1	07:05:29
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75	07:04:57	50.2	07:05:46	71.8	07:05:44
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74.4	07:04:59	41	07:05:48	73.1	07:05:46
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73.9	07:05:01	41.1	07:05:50	73.3	07:05:48
70.1	07:05:02	41.2	07:05:51	72.4	07:05:49
69.8	07:05:03	43.4	07:05:52	71.8	07:05:50

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72.4	07:05:05	40.8	07:05:54	75.4	07:05:52
82	07:05:06	40.2	07:05:55	75.7	07:05:53
72.2	07:05:07	40.3	07:05:56	74.4	07:05:54
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74.9	07:05:46	45.7	07:06:35	72.3	07:06:33
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74	07:05:56	42	07:06:45	73.9	07:06:43
74.8	07:05:57	43.2	07:06:46	62.2	07:06:44
78.2	07:05:58	50.2	07:06:47	61.3	07:06:45
70.2	07:05:59	43.6	07:06:48	66.5	07:06:46
69.4	07:06:00	45.9	07:06:49	69.8	07:06:47
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71.4	07:06:14	51.6	07:07:03	82	07:07:01
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72.1	07:06:40	47.6	07:07:29	72	07:07:27
71.9	07:06:41	44	07:07:30	69.9	07:07:28
70.7	07:06:42	42.5	07:07:31	80.8	07:07:29
79.9	07:06:43	44.3	07:07:32	69.3	07:07:30
71.9	07:06:44	42.4	07:07:33	67.1	07:07:31
73.1	07:06:45	39.8	07:07:34	67.9	07:07:32
73.2	07:06:46	42.6	07:07:35	70.7	07:07:33
72.1	07:06:47	42.2	07:07:36	71.5	07:07:34
72.8	07:06:48	39.3	07:07:37	72.6	07:07:35
73.6	07:06:49	40.6	07:07:38	72.8	07:07:36
73.4	07:06:50	39	07:07:39	73	07:07:37
73.3	07:06:51	39.9	07:07:40	70.9	07:07:38
69.8	07:06:52	39.7	07:07:41	68.4	07:07:39
70.4	07:06:53	45.8	07:07:42	72.1	07:07:40
69.7	07:06:54	45.8	07:07:43	72.6	07:07:41
75	07:06:55	46.5	07:07:44	72.5	07:07:42
71.4	07:06:56	50.5	07:07:45	70.7	07:07:43
68.9	07:06:57	49.5	07:07:46	68.5	07:07:44
70.4	07:06:58	46.4	07:07:47	66.1	07:07:45
70.3	07:06:59	44.5	07:07:48	65.1	07:07:46
78.4	07:07:00	42.7	07:07:49	65.9	07:07:47
67.5	07:07:01	41.9	07:07:50	74.5	07:07:48
71.3	07:07:02	42.1	07:07:51	74.1	07:07:49
70.5	07:07:03	43.4	07:07:52	74.5	07:07:50
68.4	07:07:04	47.2	07:07:53	71.1	07:07:51
63.4	07:07:05	40.8	07:07:54	72.2	07:07:52
62.7	07:07:06	41.8	07:07:55	69	07:07:53
64.4	07:07:07	41.1	07:07:56	69.5	07:07:54
68.8	07:07:08	46	07:07:57	73.7	07:07:55
72.9	07:07:09	47.7	07:07:58	70.5	07:07:56
63.9	07:07:10	46.4	07:07:59	71.9	07:07:57
69.5	07:07:11	50.4	07:08:00	71.4	07:07:58
69.8	07:07:12	54.5	07:08:01	71.7	07:07:59
92.4	07:07:13	56.1	07:08:02	71.8	07:08:00
79.2	07:07:14	48.1	07:08:03	72.2	07:08:01
61.8	07:07:15	47.3	07:08:04	72.6	07:08:02
64.7	07:07:16	48.3	07:08:05	71.8	07:08:03
68.4	07:07:17	51.8	07:08:06	74.8	07:08:04
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70.4	07:07:20	40.7	07:08:09	70	07:08:07
73.1	07:07:21	39.3	07:08:10	67.4	07:08:08

69.9	07:07:22	40.2	07:08:11	69.2	07:08:09
67.7	07:07:23	39.5	07:08:12	70	07:08:10
64.2	07:07:24	39.7	07:08:13	66.9	07:08:11
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66.3	07:07:26	38.4	07:08:15	71.9	07:08:13
67.8	07:07:27	39.3	07:08:16	71.9	07:08:14
65.1	07:07:28	39	07:08:17	72.7	07:08:15
64.4	07:07:29	39.9	07:08:18	74	07:08:16
64.5	07:07:30	38.5	07:08:19	71.4	07:08:17
63.4	07:07:31	38.8	07:08:20	69.6	07:08:18
64.9	07:07:32	39.7	07:08:21	70.4	07:08:19
68	07:07:33	39.8	07:08:22	74.4	07:08:20
66.6	07:07:34	41.6	07:08:23	74.4	07:08:21
70.7	07:07:35	42.2	07:08:24	73.7	07:08:22
68.8	07:07:36	44.4	07:08:25	70.8	07:08:23
66.4	07:07:37	46.8	07:08:26	70.1	07:08:24
65.1	07:07:38	45.3	07:08:27	69.7	07:08:25
66	07:07:39	47.7	07:08:28	73.1	07:08:26
64.6	07:07:40	54.3	07:08:29	72.5	07:08:27
65.7	07:07:41	56.6	07:08:30	75.5	07:08:28
77.4	07:07:42	58.9	07:08:31	79.3	07:08:29
80.8	07:07:43	61.1	07:08:32	83.3	07:08:30
63.2	07:07:44	63.3	07:08:33	81	07:08:31
62.4	07:07:45	64.4	07:08:34	78.4	07:08:32
72.1	07:07:46	63.5	07:08:35	77.3	07:08:33
64.8	07:07:47	64.2	07:08:36	76.5	07:08:34
64.8	07:07:48	66.1	07:08:37	75.1	07:08:35
67.5	07:07:49	63.9	07:08:38	74.6	07:08:36
71.3	07:07:50	65.3	07:08:39	72.7	07:08:37
69.6	07:07:51	67.1	07:08:40	71.6	07:08:38
71.8	07:07:52	66.5	07:08:41	75.4	07:08:39
70.3	07:07:53	60.5	07:08:42	72.3	07:08:40
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67.5	07:07:55	59.1	07:08:44	73.6	07:08:42
68.6	07:07:56	59.9	07:08:45	72.6	07:08:43
68.8	07:07:57	61.7	07:08:46	72	07:08:44
81.2	07:07:58	58.8	07:08:47	72.7	07:08:45
80	07:07:59	56.3	07:08:48	69.5	07:08:46
76.3	07:08:00	55.4	07:08:49	70.6	07:08:47
72.4	07:08:01	53.8	07:08:50	70	07:08:48
74.8	07:08:02	51.4	07:08:51	69.7	07:08:49
77.4	07:08:03	50.6	07:08:52	69.6	07:08:50
74.7	07:08:04	48.8	07:08:53	72.7	07:08:51
80	07:08:05	48.8	07:08:54	73.3	07:08:52
69.5	07:08:06	47	07:08:55	73.9	07:08:53
78.3	07:08:07	46.4	07:08:56	71.6	07:08:54

76.7	07:08:08	43.8	07:08:57	73.5	07:08:55
68.7	07:08:09	45.8	07:08:58	72.7	07:08:56
63.9	07:08:10	47.2	07:08:59	72	07:08:57
62.7	07:08:11	46.2	07:09:00	72.6	07:08:58
72	07:08:12	49.7	07:09:01	73.8	07:08:59
67.3	07:08:13	50.4	07:09:02	74.4	07:09:00
71.6	07:08:14	56.2	07:09:03	74.2	07:09:01
70	07:08:15	45.4	07:09:04	72.9	07:09:02
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59.7	07:08:17	43.9	07:09:06	73.1	07:09:04
62.6	07:08:18	43.5	07:09:07	70.8	07:09:05
66.5	07:08:19	46.6	07:09:08	69.8	07:09:06
73.2	07:08:20	43	07:09:09	70.1	07:09:07
67.9	07:08:21	42.4	07:09:10	70.7	07:09:08
69	07:08:22	43.1	07:09:11	74.7	07:09:09
69.2	07:08:23	47.2	07:09:12	74.6	07:09:10
65.7	07:08:24	48.5	07:09:13	75.5	07:09:11
66.2	07:08:25	53.8	07:09:14	75.5	07:09:12
69.5	07:08:26	59.8	07:09:15	74.6	07:09:13
69.5	07:08:27	56.5	07:09:16	72.4	07:09:14
65.6	07:08:28	50.8	07:09:17	73.9	07:09:15
66.3	07:08:29	52.8	07:09:18	78.2	07:09:16
68	07:08:30	48.8	07:09:19	74.2	07:09:17
68	07:08:31	50.4	07:09:20	79.1	07:09:18
67	07:08:32	51.3	07:09:21	80.2	07:09:19
70.1	07:08:33	49.4	07:09:22	80	07:09:20
78.5	07:08:34	51	07:09:23	76.7	07:09:21
71.2	07:08:35	48.1	07:09:24	76.3	07:09:22
70.2	07:08:36	44.6	07:09:25	78.8	07:09:23
76.1	07:08:37	43.2	07:09:26	77.9	07:09:24
70.9	07:08:38	40.3	07:09:27	80	07:09:25
70.2	07:08:39	41.8	07:09:28	77.9	07:09:26
76.1	07:08:40	41.7	07:09:29	76.7	07:09:27
84.7	07:08:41	42.4	07:09:30	73.2	07:09:28
67	07:08:42	41.1	07:09:31	72.9	07:09:29
67.6	07:08:43	42.2	07:09:32	70.4	07:09:30
70.8	07:08:44	41.8	07:09:33	71.9	07:09:31
74	07:08:45	41	07:09:34	70.4	07:09:32
64.2	07:08:46	40.7	07:09:35	69.8	07:09:33
66.7	07:08:47	41	07:09:36	67.9	07:09:34
65.9	07:08:48	42.5	07:09:37	69.9	07:09:35
65	07:08:49	44.5	07:09:38	70	07:09:36
75.8	07:08:50	42	07:09:39	69.6	07:09:37
61.5	07:08:51	42	07:09:40	72.2	07:09:38
62.8	07:08:52	43.7	07:09:41	74.2	07:09:39
64.2	07:08:53	46.5	07:09:42	75.8	07:09:40

64.7	07:08:54	46.2	07:09:43	70.4	07:09:41
62.4	07:08:55	48.5	07:09:44	69.4	07:09:42
65.1	07:08:56	52.7	07:09:45	68.9	07:09:43
64.2	07:08:57	47.7	07:09:46	70.5	07:09:44
65	07:08:58	46	07:09:47	71.6	07:09:45
68.7	07:08:59	47.3	07:09:48	70.9	07:09:46
67.2	07:09:00	43.1	07:09:49	70.5	07:09:47
66.4	07:09:01	53.8	07:09:50	70.7	07:09:48
64.4	07:09:02	51.4	07:09:51	72.5	07:09:49
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64.2	07:09:04	48.8	07:09:53	69.6	07:09:51
63.3	07:09:05	48.8	07:09:54	68.6	07:09:52
63.8	07:09:06	47	07:09:55	68.9	07:09:53
64.3	07:09:07	46.4	07:09:56	68	07:09:54
64.7	07:09:08	40.7	07:09:57	67.7	07:09:55
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63.1	07:09:10	42.5	07:09:59	69.4	07:09:57
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66.4	07:09:12	41	07:10:01	69.2	07:09:59
65	07:09:13	42.5	07:10:02	68.3	07:10:00
65.5	08:00:22	42.4	07:59:58	70	08:00:07
77.6	08:00:23	42.8	07:59:59	72.5	08:00:08
62.6	08:00:24	42.7	08:00:00	73.5	08:00:09
68.1	08:00:25	42.5	08:00:01	75.5	08:00:10
68.7	08:00:26	42.9	08:00:02	74	08:00:11
76.3	08:00:27	42.6	08:00:03	73.2	08:00:12
64.3	08:00:28	44	08:00:04	71.4	08:00:13
72.6	08:00:29	45.7	08:00:05	70.1	08:00:14
69.8	08:00:30	45.1	08:00:06	72.1	08:00:15
70.5	08:00:31	47.7	08:00:07	73.6	08:00:16
67.3	08:00:32	48.3	08:00:08	72.8	08:00:17
62.8	08:00:33	50.7	08:00:09	70.3	08:00:18
80.3	08:00:34	52.4	08:00:10	69	08:00:19
60.1	08:00:35	51.8	08:00:11	69.2	08:00:20
59.4	08:00:36	54	08:00:12	71	08:00:21
61.3	08:00:37	55.8	08:00:13	72.7	08:00:22
62.3	08:00:38	58.2	08:00:14	75.7	08:00:23
62.3	08:00:39	59.8	08:00:15	76	08:00:24
60.3	08:00:40	59.9	08:00:16	72.1	08:00:25
66.1	08:00:41	61.6	08:00:17	71.8	08:00:26
71.2	08:00:42	61.7	08:00:18	72.4	08:00:27
64.1	08:00:43	63	08:00:19	71.6	08:00:28
70.9	08:00:44	65.1	08:00:20	72.7	08:00:29
69	08:00:45	61.6	08:00:21	72.4	08:00:30
81	08:00:46	63.9	08:00:22	70.8	08:00:31
76.8	08:00:47	61.4	08:00:23	68.6	08:00:32

68.7	08:00:48	59.1	08:00:24	67.8	08:00:33
73.7	08:00:49	57.7	08:00:25	66.7	08:00:34
70.2	08:00:50	58.5	08:00:26	67.7	08:00:35
68.9	08:00:51	55.1	08:00:27	71.2	08:00:36
68.3	08:00:52	52.2	08:00:28	72	08:00:37
67.6	08:00:53	52.7	08:00:29	73	08:00:38
68.8	08:00:54	53.4	08:00:30	72.5	08:00:39
63.8	08:00:55	51.3	08:00:31	69.1	08:00:40
65.8	08:00:56	49.9	08:00:32	68.5	08:00:41
63.7	08:00:57	49.3	08:00:33	69.1	08:00:42
64.2	08:00:58	46.9	08:00:34	75.1	08:00:43
69.3	08:00:59	46.3	08:00:35	68.8	08:00:44
66.9	08:01:00	46.5	08:00:36	69.4	08:00:45
67.3	08:01:01	46.8	08:00:37	70	08:00:46
71.3	08:01:02	46.2	08:00:38	71.2	08:00:47
75.3	08:01:03	46.5	08:00:39	69.7	08:00:48
70.5	08:01:04	45.7	08:00:40	81.3	08:00:49
71.2	08:01:05	47.2	08:00:41	69.6	08:00:50
70.1	08:01:06	44.5	08:00:42	68.4	08:00:51
71.5	08:01:07	45.5	08:00:43	69	08:00:52
72.1	08:01:08	45.6	08:00:44	70.7	08:00:53
69.4	08:01:09	45.4	08:00:45	70	08:00:54
69.2	08:01:10	44.3	08:00:46	70.3	08:00:55
65.9	08:01:11	44.5	08:00:47	73.3	08:00:56
68.1	08:01:12	44.3	08:00:48	76.3	08:00:57
67.1	08:01:13	45.8	08:00:49	78.3	08:00:58
65.1	08:01:14	49.4	08:00:50	80.6	08:00:59
62.4	08:01:15	47.2	08:00:51	80	08:01:00
61.1	08:01:16	49	08:00:52	74.3	08:01:01
72	08:01:17	48.6	08:00:53	72	08:01:02
69.6	08:01:18	45.1	08:00:54	73.2	08:01:03
61.1	08:01:19	45.8	08:00:55	74.7	08:01:04
75.6	08:01:20	47	08:00:56	81.6	08:01:05
66.2	08:01:21	45.5	08:00:57	80.8	08:01:06
63.3	08:01:22	45.7	08:00:58	79	08:01:07
58.8	08:01:23	46.8	08:00:59	78.8	08:01:08
59.4	08:01:24	45.1	08:01:00	77.5	08:01:09
68.9	08:01:25	44.3	08:01:01	76.2	08:01:10
61.6	08:01:26	43.5	08:01:02	74.5	08:01:11
64.5	08:01:27	44.2	08:01:03	74.3	08:01:12
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65.6	08:01:29	44	08:01:05	75.6	08:01:14
65.7	08:01:30	44	08:01:06	78	08:01:15
62	08:01:31	43	08:01:07	72.7	08:01:16
64.7	08:01:32	43.2	08:01:08	72.2	08:01:17
64.3	08:01:33	43.4	08:01:09	74.3	08:01:18

68.3	08:01:34	43	08:01:10	75.3	08:01:19
69.3	08:01:35	43	08:01:11	77.9	08:01:20
71.6	08:01:36	45.6	08:01:12	80	08:01:21
72.8	08:01:37	50.9	08:01:13	80.8	08:01:22
74.1	08:01:38	51.4	08:01:14	82.8	08:01:23
73.6	08:01:39	48.6	08:01:15	80.2	08:01:24
73.2	08:01:40	45.7	08:01:16	75.4	08:01:25
74.5	08:01:41	44.2	08:01:17	72.4	08:01:26
75.4	08:01:42	43.9	08:01:18	75.1	08:01:27
71.1	08:01:43	45.5	08:01:19	75.6	08:01:28
72.1	08:01:44	50	08:01:20	73.1	08:01:29
70.1	08:01:45	63.4	08:01:21	70.1	08:01:30
70.8	08:01:46	56	08:01:22	69.7	08:01:31
68.9	08:01:47	49.4	08:01:23	76.3	08:01:32
72.2	08:01:48	51.2	08:01:24	68	08:01:33
73	08:01:49	44.1	08:01:25	69.3	08:01:34
73.7	08:01:50	45.1	08:01:26	71.7	08:01:35
72.6	08:01:51	45.7	08:01:27	70.1	08:01:36
72.1	08:01:52	45.2	08:01:28	66.2	08:01:37
70.1	08:01:53	46.5	08:01:29	71.5	08:01:38
70	08:01:54	44.5	08:01:30	65.1	08:01:39
70.3	08:01:55	43.3	08:01:31	65.7	08:01:40
69.7	08:01:56	42.8	08:01:32	64.9	08:01:41
71.8	08:01:57	43.3	08:01:33	62.4	08:01:42
74.3	08:01:58	44.1	08:01:34	65.2	08:01:43
70	08:01:59	43.7	08:01:35	66.5	08:01:44
66.1	08:02:00	45.4	08:01:36	69	08:01:45
77.8	08:02:01	46.2	08:01:37	70.2	08:01:46
75.2	08:02:02	47.1	08:01:38	74.4	08:01:47
67.7	08:02:03	52.4	08:01:39	73.2	08:01:48
64.4	08:02:04	49.7	08:01:40	70.4	08:01:49
68.6	08:02:05	52.1	08:01:41	68.5	08:01:50
69.1	08:02:06	54.8	08:01:42	68.3	08:01:51
67.1	08:02:07	58.7	08:01:43	69.8	08:01:52
66.9	08:02:08	61	08:01:44	71.1	08:01:53
71.3	08:02:09	63.4	08:01:45	71.3	08:01:54
75.5	08:02:10	61.5	08:01:46	71.3	08:01:55
70.1	08:02:11	59.7	08:01:47	69.9	08:01:56
71.9	08:02:12	61.6	08:01:48	74.9	08:01:57
74.1	08:02:13	60.6	08:01:49	78.3	08:01:58
74.6	08:02:14	64	08:01:50	78.3	08:01:59
72.4	08:02:15	62.8	08:01:51	72.5	08:02:00
72.7	08:02:16	65	08:01:52	71.7	08:02:01
72.7	08:02:17	65.4	08:01:53	71	08:02:02
72.7	08:02:18	65.3	08:01:54	68.9	08:02:03
72.7	08:02:19	61.5	08:01:55	79.3	08:02:04

72.7	08:02:20	66.5	08:01:56	67.4	08:02:05
74.7	08:02:21	64	08:01:57	69.9	08:02:06
74.7	08:02:22	60.4	08:01:58	71.7	08:02:07
74.7	08:02:23	59.9	08:01:59	67.7	08:02:08
74.7	08:02:24	59.5	08:02:00	67.8	08:02:09
74.7	08:02:25	59.1	08:02:01	67.7	08:02:10
74.7	08:02:26	59	08:02:02	66.7	08:02:11
74.7	08:02:27	57.9	08:02:03	66.6	08:02:12
74.7	08:02:28	58.3	08:02:04	69.2	08:02:13
74.7	08:02:29	54.1	08:02:05	69.1	08:02:14
74.7	08:02:30	54.6	08:02:06	67.1	08:02:15
74.7	08:02:31	52.6	08:02:07	67.8	08:02:16
74.7	08:02:32	51	08:02:08	68.4	08:02:17
74.7	08:02:33	51.1	08:02:09	68.9	08:02:18
74.7	08:02:34	52.8	08:02:10	70.2	08:02:19
74.7	08:02:35	47	08:02:11	70.9	08:02:20
74.7	08:02:36	47.7	08:02:12	67.9	08:02:21
74.7	08:02:37	47.5	08:02:13	67.5	08:02:22
74.7	08:02:38	47.4	08:02:14	65.7	08:02:23
74.7	08:02:39	49	08:02:15	68.4	08:02:24
74.7	08:02:40	47.8	08:02:16	71	08:02:25
74.7	08:02:41	47.3	08:02:17	77.5	08:02:26
74.7	08:02:42	46.4	08:02:18	77.3	08:02:27
74.7	08:02:43	50.8	08:02:19	70.5	08:02:28
74.7	08:02:44	57.6	08:02:20	70.7	08:02:29
74.7	08:02:45	57.1	08:02:21	67.4	08:02:30
74.7	08:02:46	52.8	08:02:22	68.6	08:02:31
74.7	08:02:47	46	08:02:23	70.9	08:02:32
74.7	08:02:48	44.2	08:02:24	68.9	08:02:33
76.1	08:02:49	44.9	08:02:25	69.4	08:02:34
76.1	08:02:50	44.1	08:02:26	73.8	08:02:35
76.1	08:02:51	45	08:02:27	77.9	08:02:36
76.1	08:02:52	43.3	08:02:28	79	08:02:37
76.1	08:02:53	43.7	08:02:29	77.2	08:02:38
76.1	08:02:54	43.4	08:02:30	71.9	08:02:39
76.1	08:02:55	43.3	08:02:31	70.4	08:02:40
76.1	08:02:56	43	08:02:32	67.6	08:02:41
76.1	08:02:57	47.7	08:02:33	62.7	08:02:42
76.1	08:02:58	43.9	08:02:34	62.1	08:02:43
76.1	08:02:59	46.3	08:02:35	64.3	08:02:44
76.1	08:03:00	48.3	08:02:36	64.4	08:02:45
76.1	08:03:01	53.6	08:02:37	65.8	08:02:46
76.1	08:03:02	50	08:02:38	67.5	08:02:47
76.1	08:03:03	47.6	08:02:39	70.1	08:02:48
76.1	08:03:04	44.7	08:02:40	71.1	08:02:49
76.4	08:03:05	44.4	08:02:41	70.4	08:02:50

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78	08:03:08	44.6	08:02:44	70.8	08:02:53
78	08:03:09	46.3	08:02:45	70.3	08:02:54
78	08:03:10	55.3	08:02:46	70.6	08:02:55
78.2	08:03:11	50.2	08:02:47	71.3	08:02:56
78.2	08:03:12	49.4	08:02:48	71.4	08:02:57
78.2	08:03:13	46.9	08:02:49	70.6	08:02:58
78.2	08:03:14	47.4	08:02:50	71.2	08:02:59
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78.3	08:03:37	49.1	08:03:13	68.2	08:03:22
78.3	08:03:38	58	08:03:14	69.5	08:03:23
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78.3	08:03:44	44.4	08:03:20	77	08:03:29
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78.3	08:03:56	43.9	08:03:32	66.2	08:03:41
78.3	08:03:57	42.6	08:03:33	66.1	08:03:42
78.3	08:03:58	42.9	08:03:34	77.2	08:03:43
78.3	08:03:59	42.5	08:03:35	71.4	08:03:44
78.3	08:04:00	42	08:03:36	66.6	08:03:45
78.3	08:04:01	42.8	08:03:37	69	08:03:46
78.3	08:04:02	43	08:03:38	67.2	08:03:47
78.3	08:04:03	43.1	08:03:39	67.5	08:03:48
78.3	08:04:04	45.2	08:03:40	66.4	08:03:49
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78.3	08:04:07	43.4	08:03:43	68.4	08:03:52
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78.3	08:04:12	43.4	08:03:48	66.1	08:03:57
78.3	08:04:13	43.8	08:03:49	69.2	08:03:58
78.3	08:04:14	43.7	08:03:50	70.4	08:03:59
78.3	08:04:15	45.3	08:03:51	69.5	08:04:00
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78.3	08:04:22	50.9	08:03:58	67.3	08:04:07
78.3	08:04:23	49.2	08:03:59	68.3	08:04:08
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78.3	08:04:32	44	08:04:08	65	08:04:17
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78.3	08:04:34	43.7	08:04:10	71.1	08:04:19
78.3	08:04:35	42.8	08:04:11	69.1	08:04:20
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79.3	08:04:38	43.2	08:04:14	69.5	08:04:23
79.3	08:04:39	43.2	08:04:15	66.7	08:04:24
79.3	08:04:40	42.7	08:04:16	67.3	08:04:25
79.3	08:04:41	43.1	08:04:17	67.5	08:04:26
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79.3	08:04:58	43.1	08:04:34	71.4	08:04:43
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79.3	08:05:00	53.7	08:04:36	71.4	08:04:45
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79.3	08:05:04	44.9	08:04:40	72	08:04:49
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79.3	08:05:06	43.1	08:04:42	66.7	08:04:51
79.3	08:05:07	43.8	08:04:43	68.6	08:04:52
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79.3	08:05:12	43	08:04:48	66	08:04:57
79.3	08:05:13	43.7	08:04:49	66.2	08:04:58
79.3	08:05:14	42.8	08:04:50	76	08:04:59
79.3	08:05:15	43.6	08:04:51	68.9	08:05:00
79.3	08:05:16	43.1	08:04:52	70.1	08:05:01
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79.3	08:05:54	52.9	08:05:30	69.4	08:05:39
79.3	08:05:55	48.2	08:05:31	69.8	08:05:40
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79.3	08:05:57	50.1	08:05:33	72.7	08:05:42
79.3	08:05:58	47.4	08:05:34	72.1	08:05:43
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79.3	08:06:15	46.3	08:05:51	68.5	08:06:00
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79.3	08:06:24	44.1	08:06:00	66.4	08:06:09
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79.3	08:06:27	42.9	08:06:03	65.8	08:06:12
79.3	08:06:28	42.9	08:06:04	62.7	08:06:13
79.3	08:06:29	42.8	08:06:05	67.2	08:06:14
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79.3	08:06:33	42.2	08:06:09	68.2	08:06:18
79.3	08:06:34	42.2	08:06:10	67.7	08:06:19
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79.3	08:06:36	43.1	08:06:12	69.2	08:06:21
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80.5	08:06:43	47.2	08:06:19	83	08:06:28
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80.5	08:09:39	65.5	08:09:15	75.2	08:09:24
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80.5	08:09:51	42.5	08:09:27	74.9	08:09:36
80.5	08:09:52	42.8	08:09:28	75.6	08:09:37
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80.5	08:09:57	46.8	08:09:33	68.4	08:09:42
82.1	08:09:58	44.9	08:09:34	68.4	08:09:43
82.1	08:09:59	45.4	08:09:35	71.9	08:09:44

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82.1	08:10:02	43.3	08:09:38	71.3	08:09:47
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82.1	08:10:08	51.2	08:09:44	69	08:09:53
82.1	08:10:09	46.5	08:09:45	69.2	08:09:54
82.1	08:10:10	51.1	08:09:46	69.5	08:09:55
82.1	08:10:11	55.2	08:09:47	65.9	08:09:56
82.1	08:10:12	60.8	08:09:48	64.2	08:09:57
82.1	08:10:13	50.2	08:09:49	64.6	08:09:58
82.1	08:10:14	46.2	08:09:50	72.5	08:09:59
82.1	08:10:15	43.8	08:09:51	72.4	08:10:00
82.1	08:10:16	42.4	08:09:52	73.6	08:10:01
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82.1	08:10:24	45.5	08:10:00	69.9	08:10:09
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66.8	08:57:36	46.2	08:59:58	68.2	08:59:59
66.3	08:57:37	49.1	08:59:59	68.8	09:00:00
67.7	08:57:38	55.3	09:00:00	67.9	09:00:01
68.2	08:57:39	50.4	09:00:01	67.3	09:00:02
66.1	08:57:40	51.4	09:00:02	68.7	09:00:03
66.2	08:57:41	46.4	09:00:03	68.8	09:00:04
69.6	08:57:42	46.3	09:00:04	69.9	09:00:05
70	08:57:43	44.9	09:00:05	69.1	09:00:06
68.3	08:57:44	42.1	09:00:06	67.8	09:00:07
70.2	08:57:45	43.4	09:00:07	67.8	09:00:08
70.1	08:57:46	41.3	09:00:08	80.4	09:00:09
69.6	08:57:47	41.9	09:00:09	66	09:00:10
70	08:57:48	39.7	09:00:10	77.9	09:00:11
70.3	08:57:49	41	09:00:11	68.5	09:00:12
69.7	08:57:50	39.9	09:00:12	66.5	09:00:13
68	08:57:51	41.5	09:00:13	65.9	09:00:14
69.1	08:57:52	42.4	09:00:14	67.1	09:00:15
67.3	08:57:53	42.4	09:00:15	66.5	09:00:16
66.6	08:57:54	42.1	09:00:16	67.1	09:00:17
68	08:57:55	42	09:00:17	68	09:00:18

72.2	08:57:56	41.8	09:00:18	68.7	09:00:19
69.2	08:57:57	40.2	09:00:19	67.6	09:00:20
65.4	08:57:58	41.1	09:00:20	68.4	09:00:21
62.8	08:57:59	41.6	09:00:21	72.4	09:00:22
65.1	08:58:00	41.4	09:00:22	74.5	09:00:23
63.6	08:58:01	42.2	09:00:23	67.1	09:00:24
63.7	08:58:02	44	09:00:24	69.3	09:00:25
65.9	08:58:03	42.2	09:00:25	69	09:00:26
64.8	08:58:04	42.9	09:00:26	65.9	09:00:27
66.1	08:58:05	43.9	09:00:27	67	09:00:28
67.4	08:58:06	45.6	09:00:28	70.4	09:00:29
67.1	08:58:07	45.3	09:00:29	69.9	09:00:30
67.5	08:58:08	49.5	09:00:30	67.7	09:00:31
67.8	08:58:09	50.9	09:00:31	72.3	09:00:32
68.9	08:58:10	49	09:00:32	66.2	09:00:33
74.5	08:58:11	52.4	09:00:33	67.4	09:00:34
73.8	08:58:12	50	09:00:34	72.3	09:00:35
72.2	08:58:13	51.2	09:00:35	68.6	09:00:36
73.2	08:58:14	49.3	09:00:36	69.3	09:00:37
74.5	08:58:15	50.4	09:00:37	77.1	09:00:38
73.1	08:58:16	50	09:00:38	70.5	09:00:39
71.7	08:58:17	46.1	09:00:39	76.6	09:00:40
71.1	08:58:18	46.2	09:00:40	69.6	09:00:41
72.2	08:58:19	47.8	09:00:41	69	09:00:42
70.6	08:58:20	48.3	09:00:42	77.2	09:00:43
67.6	08:58:21	48.7	09:00:43	69.2	09:00:44
69.3	08:58:22	51.3	09:00:44	72	09:00:45
69.4	08:58:23	55.6	09:00:45	70.6	09:00:46
69.6	08:58:24	60.8	09:00:46	69	09:00:47
71.7	08:58:25	58.3	09:00:47	66.2	09:00:48
68.1	08:58:26	58.6	09:00:48	74.3	09:00:49
68	08:58:27	56	09:00:49	72.8	09:00:50
71.3	08:58:28	56.4	09:00:50	68.5	09:00:51
68.3	08:58:29	54.4	09:00:51	81	09:00:52
70.5	08:58:30	53.8	09:00:52	70.6	09:00:53
68	08:58:31	50.6	09:00:53	67	09:00:54
68.1	08:58:32	50.1	09:00:54	75.5	09:00:55
68.2	08:58:33	54.2	09:00:55	67.5	09:00:56
66.8	08:58:34	56.1	09:00:56	68.6	09:00:57
68	08:58:35	48.9	09:00:57	69.4	09:00:58
67.5	08:58:36	45.6	09:00:58	70.9	09:00:59
68	08:58:37	47.6	09:00:59	77.6	09:01:00
67.8	08:58:38	47.7	09:01:00	78.9	09:01:01
69.6	08:58:39	48.8	09:01:01	83.6	09:01:02
69.5	08:58:40	44.4	09:01:02	81.3	09:01:03
67.5	08:58:41	51.5	09:01:03	80.2	09:01:04

64.9	08:58:42	42	09:01:04	76.2	09:01:05
65	08:58:43	47.2	09:01:05	76.2	09:01:06
65.4	08:58:44	57.7	09:01:06	74.4	09:01:07
67.7	08:58:45	40.1	09:01:07	76.1	09:01:08
67.8	08:58:46	43.7	09:01:08	72.2	09:01:09
68.8	08:58:47	48.4	09:01:09	74.6	09:01:10
68.8	08:58:48	47.1	09:01:10	74.5	09:01:11
71.3	08:58:49	58.9	09:01:11	72.5	09:01:12
72.5	08:58:50	70.2	09:01:12	71.1	09:01:13
66.8	08:58:51	50	09:01:13	71	09:01:14
74.7	08:58:52	42	09:01:14	69.6	09:01:15
68.7	08:58:53	47.3	09:01:15	68.5	09:01:16
69.9	08:58:54	48.6	09:01:16	69	09:01:17
72.9	08:58:55	58.8	09:01:17	67.7	09:01:18
70.2	08:58:56	40.8	09:01:18	68.8	09:01:19
68.1	08:58:57	43.3	09:01:19	70.6	09:01:20
69.1	08:58:58	53.1	09:01:20	69.4	09:01:21
66	08:58:59	39.7	09:01:21	70.6	09:01:22
64.3	08:59:00	42.8	09:01:22	71.5	09:01:23
65.9	08:59:01	45.4	09:01:23	71.6	09:01:24
64.4	08:59:02	51.3	09:01:24	70.7	09:01:25
65.6	08:59:03	41	09:01:25	68.8	09:01:26
65.9	08:59:04	39.7	09:01:26	69.9	09:01:27
67.4	08:59:05	39.2	09:01:27	71.4	09:01:28
72.9	08:59:06	41.7	09:01:28	70.8	09:01:29
68.3	08:59:07	42	09:01:29	70	09:01:30
72	08:59:08	40.7	09:01:30	67.9	09:01:31
80	08:59:09	53.5	09:01:31	62.2	09:01:32
75.2	08:59:10	65.7	09:01:32	61.3	09:01:33
67.3	08:59:11	40.1	09:01:33	61	09:01:34
64.3	08:59:12	45	09:01:34	63.9	09:01:35
64.4	08:59:13	46.5	09:01:35	65.2	09:01:36
66.6	08:59:14	43.7	09:01:36	70.1	09:01:37
63.5	08:59:15	43.6	09:01:37	68.3	09:01:38
63.4	08:59:16	39.5	09:01:38	68.3	09:01:39
63.9	08:59:17	44	09:01:39	66.5	09:01:40
63.7	08:59:18	53.2	09:01:40	66.4	09:01:41
62.7	08:59:19	43	09:01:41	67.3	09:01:42
63.6	08:59:20	45.1	09:01:42	67.1	09:01:43
62.8	08:59:21	47.4	09:01:43	67	09:01:44
62.1	08:59:22	49.8	09:01:44	67.9	09:01:45
65.4	08:59:23	51	09:01:45	73.2	09:01:46
71.8	08:59:24	48.5	09:01:46	69.4	09:01:47
66.9	08:59:25	42	09:01:47	69.4	09:01:48
65.3	08:59:26	41	09:01:48	67.7	09:01:49
66.2	08:59:27	42.1	09:01:49	70	09:01:50
67.1	08:59:28	39	09:01:50	71.8	09:01:51
68.8	08:59:29	40.7	09:01:51	69.6	09:01:52
67.6	08:59:30	42.2	09:01:52	67	09:01:53
70.7	08:59:31	39	09:01:53	68.2	09:01:54
66.8	08:59:32	40.3	09:01:54	66.5	09:01:55
65.7	08:59:33	37.9	09:01:55	69.6	09:01:56
68.7	08:59:34	43.8	09:01:56	66.6	09:01:57
67.3	08:59:35	39.4	09:01:57	67	09:01:58
64.8	08:59:36	39	09:01:58	68.5	09:01:59
64.5	08:59:37	40.6	09:01:59	68.9	09:02:00
67.2	08:59:38	39.3	09:02:00	75.2	09:02:01
66.3	08:59:39	40	09:02:01	75.5	09:02:02
67.8	08:59:40	39.7	09:02:02	73.1	09:02:03
71.4	08:59:41	39.4	09:02:03	62.9	09:02:04
76.7	08:59:42	40.1	09:02:04	60.6	09:02:05
73.6	08:59:43	42	09:02:05	66.6	09:02:06
76.4	08:59:44	42.1	09:02:06	69	09:02:07
74.6	08:59:45	40	09:02:07	71	09:02:08
69.6	08:59:46	45.8	09:02:08	66.7	09:02:09
69.5	08:59:47	45.7	09:02:09	70.4	09:02:10
69.2	08:59:48	48.1	09:02:10	69.4	09:02:11
70.3	08:59:49	54	09:02:11	70.7	09:02:12
69.5	08:59:50	54.9	09:02:12	69.5	09:02:13
69.1	08:59:51	53.8	09:02:13	69.1	09:02:14
69	08:59:52	59.7	09:02:14	68.5	09:02:15
70	08:59:53	65.3	09:02:15	67.7	09:02:16
67.8	08:59:54	60.2	09:02:16	68.2	09:02:17
67.5	08:59:55	55.9	09:02:17	67.6	09:02:18
67.3	08:59:56	52.4	09:02:18	69.1	09:02:19
66.4	08:59:57	49.2	09:02:19	68.3	09:02:20
69.1	08:59:58	47.1	09:02:20	68.7	09:02:21
66.3	08:59:59	45.8	09:02:21	66	09:02:22
68	09:00:00	50.6	09:02:22	69.8	09:02:23
67.7	09:00:01	51.6	09:02:23	71	09:02:24
67.5	09:00:02	49	09:02:24	73.8	09:02:25
66.6	09:00:03	47.4	09:02:25	71	09:02:26
68.3	09:00:04	45.1	09:02:26	76	09:02:27
75.1	09:00:05	46.4	09:02:27	71.9	09:02:28
70.4	09:00:06	41.8	09:02:28	68.6	09:02:29
73.3	09:00:07	41.2	09:02:29	76.6	09:02:30
67.8	09:00:08	43.3	09:02:30	67.8	09:02:31
66.5	09:00:09	41.8	09:02:31	66.3	09:02:32
65.2	09:00:10	39.2	09:02:32	65.1	09:02:33
67	09:00:11	40.4	09:02:33	71.7	09:02:34
67.5	09:00:12	41.1	09:02:34	68.5	09:02:35
69	09:00:13	39.9	09:02:35	77.8	09:02:36

67.3	09:00:14	42.4	09:02:36	67.8	09:02:37
70	09:00:15	47	09:02:37	72.8	09:02:38
71.2	09:00:16	39.3	09:02:38	69	09:02:39
67.8	09:00:17	38.4	09:02:39	67.8	09:02:40
66.8	09:00:18	39.8	09:02:40	67.9	09:02:41
66.5	09:00:19	38.9	09:02:41	67.5	09:02:42
69	09:00:20	41.7	09:02:42	68.8	09:02:43
73.1	09:00:21	41.6	09:02:43	69.3	09:02:44
71.1	09:00:22	40.3	09:02:44	69	09:02:45
69.3	09:00:23	38.8	09:02:45	71.3	09:02:46
69.5	09:00:24	42.9	09:02:46	68.7	09:02:47
70.7	09:00:25	46.4	09:02:47	68.5	09:02:48
72.6	09:00:26	44.8	09:02:48	69.3	09:02:49
71	09:00:27	42.6	09:02:49	75.6	09:02:50
72.7	09:00:28	41.2	09:02:50	74.3	09:02:51
75.5	09:00:29	41	09:02:51	67.9	09:02:52
71.2	09:00:30	40	09:02:52	67.7	09:02:53
72.7	09:00:31	39.5	09:02:53	68	09:02:54
73.1	09:00:32	43.8	09:02:54	67.8	09:02:55
73.2	09:00:33	41.2	09:02:55	69.8	09:02:56
73.9	09:00:34	39.7	09:02:56	75.1	09:02:57
73.9	09:00:35	40.8	09:02:57	71.1	09:02:58
77.3	09:00:36	41.7	09:02:58	74.1	09:02:59
73.3	09:00:37	44.2	09:02:59	70.1	09:03:00
72.2	09:00:38	47	09:03:00	67.9	09:03:01
71.2	09:00:39	51.4	09:03:01	80.2	09:03:02
70.1	09:00:40	57.6	09:03:02	67.6	09:03:03
70.4	09:00:41	63.3	09:03:03	72.8	09:03:04
70.5	09:00:42	58.2	09:03:04	69.1	09:03:05
69.3	09:00:43	53.4	09:03:05	70.1	09:03:06
71	09:00:44	51.8	09:03:06	70.3	09:03:07
67.9	09:00:45	47.3	09:03:07	81.6	09:03:08
69.6	09:00:46	44	09:03:08	73.8	09:03:09
75.4	09:00:47	44.4	09:03:09	83.1	09:03:10
77.4	09:00:48	45.5	09:03:10	70	09:03:11
71.8	09:00:49	47.8	09:03:11	69.9	09:03:12
75.1	09:00:50	47.7	09:03:12	69.8	09:03:13
73.4	09:00:51	48.7	09:03:13	69	09:03:14
74.1	09:00:52	41.6	09:03:14	74.5	09:03:15
76.7	09:00:53	41.4	09:03:15	70.5	09:03:16
71	09:00:54	42.4	09:03:16	70.2	09:03:17
71	09:00:55	42.3	09:03:17	71.6	09:03:18
70.8	09:00:56	39.4	09:03:18	70.9	09:03:19
72.2	09:00:57	37.4	09:03:19	74.1	09:03:20
70.1	09:00:58	38	09:03:20	70.5	09:03:21
72	09:00:59	37.7	09:03:21	77.7	09:03:22

71.5	09:01:00	40.2	09:03:22	76.7	09:03:23
71.7	09:01:01	39	09:03:23	78	09:03:24
71.7	09:01:02	40.3	09:03:24	76.5	09:03:25
72.7	09:01:03	39.5	09:03:25	76.2	09:03:26
73	09:01:04	41.4	09:03:26	72.8	09:03:27
72.6	09:01:05	40.2	09:03:27	73.6	09:03:28
70.8	09:01:06	39.1	09:03:28	75.7	09:03:29
71.7	09:01:07	37.7	09:03:29	75.4	09:03:30
72	09:01:08	39	09:03:30	71.8	09:03:31
73	09:01:09	40.9	09:03:31	73.4	09:03:32
71.1	09:01:10	40.1	09:03:32	75.9	09:03:33
68.8	09:01:11	41	09:03:33	78.5	09:03:34
68.6	09:01:12	39.9	09:03:34	73.7	09:03:35
69	09:01:13	43	09:03:35	70.9	09:03:36
68.6	09:01:14	44.7	09:03:36	70.6	09:03:37
67.5	09:01:15	43.5	09:03:37	69.4	09:03:38
71.4	09:01:16	42.8	09:03:38	70.9	09:03:39
67.4	09:01:17	39.7	09:03:39	72.3	09:03:40
70	09:01:18	40.9	09:03:40	73.4	09:03:41
71.9	09:01:19	59.5	09:03:41	77.6	09:03:42
71.6	09:01:20	38.2	09:03:42	75.9	09:03:43
74.5	09:01:21	39.5	09:03:43	73	09:03:44
73.5	09:01:22	40.4	09:03:44	80.4	09:03:45
68.7	09:01:23	40.2	09:03:45	79.8	09:03:46
73.7	09:01:24	39.9	09:03:46	73.1	09:03:47
75	09:01:25	38.2	09:03:47	68.8	09:03:48
74.4	09:01:26	38.5	09:03:48	71.1	09:03:49
70.9	09:01:27	38.4	09:03:49	67.4	09:03:50
69.2	09:01:28	41	09:03:50	70.6	09:03:51
71.7	09:01:29	47.8	09:03:51	67	09:03:52
75.3	09:01:30	55.7	09:03:52	67	09:03:53
74.2	09:01:31	44.5	09:03:53	66.5	09:03:54
74.6	09:01:32	41.3	09:03:54	69.3	09:03:55
83	09:01:33	44.8	09:03:55	74.7	09:03:56
74.5	09:01:34	39.1	09:03:56	74	09:03:57
75.8	09:01:35	41.2	09:03:57	74.6	09:03:58
74.2	09:01:36	41.4	09:03:58	70.9	09:03:59
73.3	09:01:37	53.5	09:03:59	69.5	09:04:00
70.6	09:01:38	39.9	09:04:00	70.5	09:04:01
67.9	09:01:39	39.6	09:04:01	70.1	09:04:02
71.3	09:01:40	39	09:04:02	72.4	09:04:03
68.2	09:01:41	39.9	09:04:03	73.7	09:04:04
71.4	09:01:42	42.2	09:04:04	71.4	09:04:05
71.3	09:01:43	38.1	09:04:05	72.9	09:04:06
72.7	09:01:44	40.8	09:04:06	75.5	09:04:07
70.8	09:01:45	38.1	09:04:07	75.5	09:04:08

72.2	09:01:46	40.6	09:04:08	76	09:04:09
70.3	09:01:47	43.3	09:04:09	73.3	09:04:10
77	09:01:48	43.6	09:04:10	71.6	09:04:11
69.3	09:01:49	42.2	09:04:11	69.8	09:04:12
70.4	09:01:50	40.1	09:04:12	69.7	09:04:13
72.2	09:01:51	40	09:04:13	72.1	09:04:14
72.9	09:01:52	44.6	09:04:14	72.6	09:04:15
71.4	09:01:53	40.3	09:04:15	72.8	09:04:16
71.2	09:01:54	38	09:04:16	77.2	09:04:17
70.2	09:01:55	40.4	09:04:17	72.9	09:04:18
71	09:01:56	40.6	09:04:18	69.7	09:04:19
72.1	09:01:57	40	09:04:19	67.8	09:04:20
71.3	09:01:58	39.3	09:04:20	67	09:04:21
69.2	09:01:59	39.6	09:04:21	69.2	09:04:22
68.9	09:02:00	39.2	09:04:22	69.2	09:04:23
68.9	09:02:01	42.9	09:04:23	67.8	09:04:24
70.1	09:02:02	40.7	09:04:24	69.2	09:04:25
69.5	09:02:03	39.7	09:04:25	72.8	09:04:26
70.7	09:02:04	38.5	09:04:26	75.2	09:04:27
68.3	09:02:05	39.9	09:04:27	78.5	09:04:28
68.1	09:02:06	40.2	09:04:28	77.5	09:04:29
68.4	09:02:07	39	09:04:29	84.4	09:04:30
68.7	09:02:08	41.4	09:04:30	75.6	09:04:31
69.3	09:02:09	41.2	09:04:31	75.3	09:04:32
68.1	09:02:10	37.8	09:04:32	75.4	09:04:33
67.3	09:02:11	42.1	09:04:33	76.6	09:04:34
67.7	09:02:12	38.5	09:04:34	75.9	09:04:35
68.3	09:02:13	47.1	09:04:35	71.9	09:04:36
65.5	09:02:14	40.2	09:04:36	73.8	09:04:37
66.5	09:02:15	42.7	09:04:37	72.4	09:04:38
67.5	09:02:16	40.2	09:04:38	72.5	09:04:39
67.1	09:02:17	44.1	09:04:39	75.2	09:04:40
65.2	09:02:18	43.3	09:04:40	69.9	09:04:41
65	09:02:19	40.4	09:04:41	68.8	09:04:42
68.4	09:02:20	38.8	09:04:42	67.8	09:04:43
64.5	09:02:21	39.9	09:04:43	68.8	09:04:44
61.9	09:02:22	42.6	09:04:44	69.2	09:04:45
64	09:02:23	38.9	09:04:45	69.7	09:04:46
64.6	09:02:24	42.3	09:04:46	69.3	09:04:47
65.2	09:02:25	40.2	09:04:47	66.1	09:04:48
67.8	09:02:26	40	09:04:48	67	09:04:49
67	09:02:27	46	09:04:49	66.1	09:04:50
68	09:02:28	44.2	09:04:50	67.6	09:04:51
70.5	09:02:29	41.9	09:04:51	69.1	09:04:52
70.9	09:02:30	41	09:04:52	66.7	09:04:53
71.9	09:02:31	39.9	09:04:53	65.4	09:04:54

74.1	09:02:32	39.1	09:04:54	66.5	09:04:55
77.2	09:02:33	41.2	09:04:55	68.9	09:04:56
76.9	09:02:34	38.6	09:04:56	74.8	09:04:57
73.8	09:02:35	38.3	09:04:57	74.2	09:04:58
77.3	09:02:36	44.1	09:04:58	74.4	09:04:59
76.1	09:02:37	41.9	09:04:59	74.1	09:05:00
73.7	09:02:38	43.3	09:05:00	69.4	09:05:01
73.7	09:02:39	43.8	09:05:01	69.5	09:05:02
76.2	09:02:40	49.2	09:05:02	68.2	09:05:03
74.6	09:02:41	49.9	09:05:03	69.7	09:05:04
78.2	09:02:42	50.9	09:05:04	70.9	09:05:05
77.8	09:02:43	53	09:05:05	70.9	09:05:06
78.6	09:02:44	51.9	09:05:06	72	09:05:07
77.1	09:02:45	44.1	09:05:07	74.9	09:05:08
75.6	09:02:46	41.4	09:05:08	68.5	09:05:09
76.8	09:02:47	44	09:05:09	66.4	09:05:10
74.3	09:02:48	46.7	09:05:10	69.7	09:05:11
72.9	09:02:49	68.4	09:05:11	65.9	09:05:12
73.3	09:02:50	43.7	09:05:12	68.5	09:05:13
71.5	09:02:51	40.2	09:05:13	69.1	09:05:14
71.1	09:02:52	42.1	09:05:14	66.2	09:05:15
71.3	09:02:53	40.2	09:05:15	69	09:05:16
70.5	09:02:54	40.3	09:05:16	67.3	09:05:17
70.1	09:02:55	42.1	09:05:17	67.2	09:05:18
70.1	09:02:56	38.6	09:05:18	72.1	09:05:19
70.8	09:02:57	41	09:05:19	69.6	09:05:20
71.2	09:02:58	44	09:05:20	65.3	09:05:21
71.9	09:02:59	44.2	09:05:21	69.8	09:05:22
72.6	09:03:00	41	09:05:22	63.8	09:05:23
73.7	09:03:01	43.1	09:05:23	69.3	09:05:24
70.8	09:03:02	56.3	09:05:24	66.7	09:05:25
70	09:03:03	51.8	09:05:25	68.3	09:05:26
69.8	09:03:04	58.1	09:05:26	64.7	09:05:27
64.9	09:03:05	61.3	09:05:27	64.5	09:05:28
68	09:03:06	59.5	09:05:28	60.4	09:05:29
68.7	09:03:07	55.7	09:05:29	66.2	09:05:30
70.2	09:03:08	43.7	09:05:30	66.1	09:05:31
71.2	09:03:09	48.8	09:05:31	67.4	09:05:32
74.5	09:03:10	43.4	09:05:32	66.9	09:05:33
75.7	09:03:11	39.3	09:05:33	64.9	09:05:34
73.2	09:03:12	50.2	09:05:34	64.8	09:05:35
70.8	09:03:13	53.9	09:05:35	66.7	09:05:36
71	09:03:14	42	09:05:36	67.1	09:05:37
73.7	09:03:15	51.1	09:05:37	65.5	09:05:38
69.9	09:03:16	47.2	09:05:38	62.2	09:05:39
73.9	09:03:17	43	09:05:39	60.3	09:05:40

73.5	09:03:18	41.8	09:05:40	68	09:05:41
73.4	09:03:19	55	09:05:41	67.1	09:05:42
75.8	09:03:20	62.9	09:05:42	69.9	09:05:43
68.7	09:03:21	42.1	09:05:43	69	09:05:44
72.1	09:03:22	45.3	09:05:44	77.5	09:05:45
69.7	09:03:23	47.3	09:05:45	75.7	09:05:46
70.9	09:03:24	55.9	09:05:46	71.8	09:05:47
67.1	09:03:25	48.3	09:05:47	72.8	09:05:48
66.7	09:03:26	44.9	09:05:48	69.7	09:05:49
67	09:03:27	41.8	09:05:49	71.7	09:05:50
68.2	09:03:28	40.6	09:05:50	74.5	09:05:51
67.7	09:03:29	40.2	09:05:51	69.8	09:05:52
67.3	09:03:30	39.7	09:05:52	72.3	09:05:53
67.6	09:03:31	41.9	09:05:53	81.1	09:05:54
69.7	09:03:32	37.7	09:05:54	67.7	09:05:55
70	09:03:33	41.7	09:05:55	70.8	09:05:56
71.5	09:03:34	37.5	09:05:56	71.8	09:05:57
70.3	09:03:35	39	09:05:57	66.8	09:05:58
66.6	09:03:36	49.2	09:05:58	66.3	09:05:59
71	09:03:37	44.8	09:05:59	74	09:06:00
68.4	09:03:38	40.6	09:06:00	70	09:06:01
62.1	09:03:39	43	09:06:01	73.2	09:06:02
66	09:03:40	44.9	09:06:02	73.7	09:06:03
65.9	09:03:41	42.4	09:06:03	70.8	09:06:04
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67.8	09:03:43	41.1	09:06:05	67.4	09:06:06
67.2	09:03:44	39.1	09:06:06	67.5	09:06:07
68.2	09:03:45	41.5	09:06:07	66.1	09:06:08
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67.7	09:03:47	42.7	09:06:09	71	09:06:10
66.2	09:03:48	44	09:06:10	68.4	09:06:11
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66.6	09:03:50	42.9	09:06:12	69.2	09:06:13
67.2	09:03:51	43.3	09:06:13	73.2	09:06:14
65.1	09:03:52	42.4	09:06:14	70.3	09:06:15
65.6	09:03:53	41.7	09:06:15	72.1	09:06:16
67.8	09:03:54	46.4	09:06:16	74.1	09:06:17
71	09:03:55	50.9	09:06:17	78.9	09:06:18
73.1	09:03:56	51.7	09:06:18	77	09:06:19
75.3	09:03:57	52.5	09:06:19	74.4	09:06:20
73.7	09:03:58	55.8	09:06:20	73.2	09:06:21
74.2	09:03:59	55.5	09:06:21	74.5	09:06:22
71.3	09:04:00	56.2	09:06:22	72.3	09:06:23
75.3	09:04:01	59.6	09:06:23	71	09:06:24
72.5	09:04:02	58.7	09:06:24	73.1	09:06:25
72.4	09:04:03	59.7	09:06:25	76.3	09:06:26

71.5	09:04:04	61.5	09:06:26	77	09:06:27
76.7	09:04:05	60.2	09:06:27	68.5	09:06:28
76.9	09:04:06	61.1	09:06:28	67.6	09:06:29
76.4	09:04:07	61.6	09:06:29	69.4	09:06:30
76.8	09:04:08	60.1	09:06:30	76.9	09:06:31
75.9	09:04:09	56.9	09:06:31	77.5	09:06:32
73.6	09:04:10	58.4	09:06:32	74.8	09:06:33
74.6	09:04:11	55.6	09:06:33	72.1	09:06:34
75.7	09:04:12	54.1	09:06:34	69	09:06:35
72.6	09:04:13	52.1	09:06:35	82.9	09:06:36
71.2	09:04:14	54.3	09:06:36	79.6	09:06:37
71.8	09:04:15	50.8	09:06:37	77.8	09:06:38
74.5	09:04:16	50.6	09:06:38	71.4	09:06:39
71.7	09:04:17	50.1	09:06:39	71	09:06:40
72.9	09:04:18	55.1	09:06:40	74.1	09:06:41
74.1	09:04:19	56	09:06:41	68.2	09:06:42
71.6	09:04:20	61.2	09:06:42	79.7	09:06:43
69.8	09:04:21	50.9	09:06:43	77.8	09:06:44
74.2	09:04:22	55.8	09:06:44	63.5	09:06:45
76.9	09:04:23	60.1	09:06:45	75.7	09:06:46
70.6	09:04:24	54.7	09:06:46	73.8	09:06:47
70.6	09:04:25	52.5	09:06:47	69.3	09:06:48
73.5	09:04:26	52.4	09:06:48	76.7	09:06:49
71.9	09:04:27	53.9	09:06:49	72.8	09:06:50
73.5	09:04:28	54.6	09:06:50	75.4	09:06:51
73.9	09:04:29	58.8	09:06:51	80.1	09:06:52
73.9	09:04:30	63	09:06:52	73.5	09:06:53
74.1	09:04:31	66.5	09:06:53	71.8	09:06:54
74.1	09:04:32	60	09:06:54	77.6	09:06:55
72.3	09:04:33	52.7	09:06:55	73.7	09:06:56
74	09:04:34	49.4	09:06:56	71.2	09:06:57
73.6	09:04:35	45.7	09:06:57	72	09:06:58
73.3	09:04:36	44	09:06:58	77.4	09:06:59
75.2	09:04:37	40.6	09:06:59	72	09:07:00
75.1	09:04:38	42.4	09:07:00	75.9	09:07:01
74.3	09:04:39	43.8	09:07:01	73.3	09:07:02
69.5	09:04:40	43.6	09:07:02	73.9	09:07:03
69.5	09:04:41	45.7	09:07:03	72	09:07:04
68.6	09:04:42	52.2	09:07:04	81.7	09:07:05
69.7	09:04:43	58.5	09:07:05	74.6	09:07:06
67.2	09:04:44	59.1	09:07:06	81.9	09:07:07
69.8	09:04:45	59.8	09:07:07	77.9	09:07:08
67.2	09:04:46	54.1	09:07:08	76	09:07:09
67.1	09:04:47	52.6	09:07:09	73.1	09:07:10
69.7	09:04:48	46.1	09:07:10	72.8	09:07:11
65.9	09:04:49	46.8	09:07:11	70.3	09:07:12

67.6	09:04:50	55	09:07:12	72.7	09:07:13
68.7	09:04:51	55.5	09:07:13	67.8	09:07:14
68.9	09:04:52	49.5	09:07:14	72.6	09:07:15
68.6	09:04:53	46.6	09:07:15	77.7	09:07:16
68.1	09:04:54	46.4	09:07:16	69.3	09:07:17
69	09:04:55	47.9	09:07:17	67.7	09:07:18
67.8	09:04:56	54.3	09:07:18	71	09:07:19
70.8	09:04:57	47.2	09:07:19	71.5	09:07:20
67.8	09:04:58	46.2	09:07:20	70.7	09:07:21
68.7	09:04:59	42.8	09:07:21	70	09:07:22
68.3	09:05:00	43.9	09:07:22	80.8	09:07:23
69.1	09:05:01	50.1	09:07:23	69.6	09:07:24
68.3	09:05:02	47	09:07:24	72.1	09:07:25
71	09:05:03	48.4	09:07:25	75.4	09:07:26
73.2	09:05:04	52.8	09:07:26	70.6	09:07:27
71.2	09:05:05	49.7	09:07:27	79.2	09:07:28
70.3	09:05:06	43.3	09:07:28	73	09:07:29
69.9	09:05:07	40.3	09:07:29	72	09:07:30
68.8	09:05:08	40	09:07:30	77	09:07:31
68.8	09:05:09	38.5	09:07:31	74.5	09:07:32
69.8	09:05:10	39.7	09:07:32	76.6	09:07:33
69.9	09:05:11	40.7	09:07:33	72.7	09:07:34
71.1	09:05:12	40.1	09:07:34	74.1	09:07:35
72	09:05:13	40.3	09:07:35	73.7	09:07:36
70.1	09:05:14	38.7	09:07:36	75.8	09:07:37
70.7	09:05:15	38	09:07:37	70.7	09:07:38
70.1	09:05:16	44.4	09:07:38	66.8	09:07:39
70.8	09:05:17	37.6	09:07:39	66.3	09:07:40
70.2	09:05:18	38.4	09:07:40	66.7	09:07:41
70.2	09:05:19	38.4	09:07:41	83.6	09:07:42
71.3	09:05:20	41.1	09:07:42	68.7	09:07:43
69.4	09:05:21	43.1	09:07:43	66.9	09:07:44
72.6	09:05:22	43.3	09:07:44	70.3	09:07:45
75.5	09:05:23	39.8	09:07:45	68.7	09:07:46
69.6	09:05:24	43.9	09:07:46	72.2	09:07:47
64.8	09:05:25	37.8	09:07:47	71.3	09:07:48
69	09:05:26	43.3	09:07:48	71.1	09:07:49
68.7	09:05:27	38.2	09:07:49	76.6	09:07:50
70.4	09:05:28	39.9	09:07:50	79	09:07:51
69	09:05:29	39.2	09:07:51	73	09:07:52
67.5	09:05:30	41.2	09:07:52	69.6	09:07:53
72.6	09:05:31	43.1	09:07:53	68.2	09:07:54
65.8	09:05:32	46.1	09:07:54	67.9	09:07:55
65.9	09:05:33	39.9	09:07:55	79.1	09:07:56
67.3	09:05:34	37.6	09:07:56	71.4	09:07:57
67	09:05:35	37.6	09:07:57	83.7	09:07:58

68.2	09:05:36	38.2	09:07:58	70.5	09:07:59
67	09:05:37	37	09:07:59	74.6	09:08:00
65.6	09:05:38	39.2	09:08:00	71.6	09:08:01
65.8	09:05:39	39.2	09:08:01	77.1	09:08:02
69.6	09:05:40	38.1	09:08:02	72.6	09:08:03
69.1	09:05:41	38.6	09:08:03	74.8	09:08:04
68.5	09:05:42	39.8	09:08:04	76	09:08:05
69.7	09:05:43	39.7	09:08:05	72.2	09:08:06
70.2	09:05:44	37.6	09:08:06	67.6	09:08:07
73.5	09:05:45	39.3	09:08:07	67.5	09:08:08
71.7	09:05:46	41.3	09:08:08	67.8	09:08:09
71.6	09:05:47	45	09:08:09	66.2	09:08:10
74.7	09:05:48	50.1	09:08:10	67.1	09:08:11
75.9	09:05:49	45.1	09:08:11	66.6	09:08:12
74.9	09:05:50	43	09:08:12	66.3	09:08:13
76	09:05:51	43.3	09:08:13	76.4	09:08:14
72.1	09:05:52	44	09:08:14	68.3	09:08:15
71.5	09:05:53	40.1	09:08:15	72	09:08:16
71.9	09:05:54	39.1	09:08:16	68.5	09:08:17
71.6	09:05:55	41.2	09:08:17	70.2	09:08:18
71.3	09:05:56	37.3	09:08:18	74	09:08:19
69.7	09:05:57	38.3	09:08:19	67.3	09:08:20
71.1	09:05:58	38.7	09:08:20	67.7	09:08:21
70.4	09:05:59	40.1	09:08:21	83.8	09:08:22
72.1	09:06:00	39.8	09:08:22	68.5	09:08:23
69.4	09:06:01	43.4	09:08:23	68	09:08:24
69.1	09:06:02	38.8	09:08:24	67.7	09:08:25
70.8	09:06:03	42.5	09:08:25	66.4	09:08:26
70	09:06:04	42.5	09:08:26	68.8	09:08:27
70.2	09:06:05	41.3	09:08:27	69.7	09:08:28
70.5	09:06:06	40.5	09:08:28	71.6	09:08:29
68.2	09:06:07	46.3	09:08:29	70	09:08:30
69.5	09:06:08	39.9	09:08:30	67.9	09:08:31
69	09:06:09	39.4	09:08:31	66.5	09:08:32
68.9	09:06:10	39.8	09:08:32	68.4	09:08:33
68.6	09:06:11	44.4	09:08:33	69.2	09:08:34
68.6	09:06:12	39.2	09:08:34	68.1	09:08:35
68.4	09:06:13	39.2	09:08:35	67.1	09:08:36
67.3	09:06:14	41	09:08:36	70.4	09:08:37
71.7	09:06:15	38.1	09:08:37	71.2	09:08:38
70.9	09:06:16	37.8	09:08:38	70.2	09:08:39
67.2	09:06:17	40.6	09:08:39	70.3	09:08:40
70.8	09:06:18	42.5	09:08:40	71.3	09:08:41
72.4	09:06:19	38	09:08:41	71	09:08:42
71.2	09:06:20	41.5	09:08:42	70.2	09:08:43
65.6	09:06:21	43.1	09:08:43	70.8	09:08:44

68.1	09:06:22	38.8	09:08:44	71.3	09:08:45
70.1	09:06:23	39.8	09:08:45	69.6	09:08:46
70.4	09:06:24	38.4	09:08:46	68.5	09:08:47
69	09:06:25	38.7	09:08:47	68.9	09:08:48
70.4	09:06:26	38.5	09:08:48	68.1	09:08:49
73.2	09:06:27	41	09:08:49	71.2	09:08:50
69.8	09:06:28	37.4	09:08:50	76.4	09:08:51
74.8	09:06:29	40	09:08:51	78.2	09:08:52
73.5	09:06:30	41.1	09:08:52	83.3	09:08:53
74.6	09:06:31	37.8	09:08:53	79.4	09:08:54
73.7	09:06:32	44.2	09:08:54	82.2	09:08:55
70.6	09:06:33	39	09:08:55	78.9	09:08:56
75.1	09:06:34	38.5	09:08:56	78.9	09:08:57
74.9	09:06:35	38.1	09:08:57	74.5	09:08:58
73.1	09:06:36	38.5	09:08:58	73.5	09:08:59
72.6	09:06:37	40.9	09:08:59	71.6	09:09:00
74.5	09:06:38	39.5	09:09:00	72	09:09:01
73.6	09:06:39	43.3	09:09:01	69.8	09:09:02
72.6	09:06:40	40	09:09:02	69.6	09:09:03
74.4	09:06:41	38.9	09:09:03	68.3	09:09:04
75.8	09:06:42	41.8	09:09:04	70.5	09:09:05
75.4	09:06:43	42.9	09:09:05	68.9	09:09:06
74.9	09:06:44	43.6	09:09:06	70.9	09:09:07
72.1	09:06:45	42.7	09:09:07	72.3	09:09:08
71.4	09:06:46	47.3	09:09:08	73.1	09:09:09
71.6	09:06:47	43.3	09:09:09	72.3	09:09:10
74.5	09:06:48	43.7	09:09:10	71.2	09:09:11
74.7	09:06:49	43.6	09:09:11	70.7	09:09:12
73.5	09:06:50	46.8	09:09:12	69.1	09:09:13
71.5	09:06:51	42.5	09:09:13	67.9	09:09:14
74	09:06:52	46	09:09:14	74.5	09:09:15
72.7	09:06:53	54.8	09:09:15	69.1	09:09:16
73.9	09:06:54	45.6	09:09:16	69.8	09:09:17
75.3	09:06:55	48.6	09:09:17	70.1	09:09:18
73.5	09:06:56	51.3	09:09:18	70.9	09:09:19
73.5	09:06:57	44.2	09:09:19	70.7	09:09:20
72.6	09:06:58	42.8	09:09:20	72.1	09:09:21
72.6	09:06:59	40.3	09:09:21	70.1	09:09:22
72.3	09:07:00	41.3	09:09:22	69.3	09:09:23
72.1	09:07:01	40	09:09:23	72.1	09:09:24
68.1	09:07:02	38.9	09:09:24	70.1	09:09:25
71	09:07:03	37.5	09:09:25	69.2	09:09:26
71.5	09:07:04	39.3	09:09:26	67.8	09:09:27
72.9	09:07:05	40.9	09:09:27	68.1	09:09:28
75.5	09:07:06	40.8	09:09:28	68.8	09:09:29
72.5	09:07:07	40.1	09:09:29	70.6	09:09:30

74.5	09:07:08	40.4	09:09:30	69.3	09:09:31
75.5	09:07:09	39.7	09:09:31	74.1	09:09:32
75.7	09:07:10	40.3	09:09:32	77.1	09:09:33
73.7	09:07:11	41.7	09:09:33	72.1	09:09:34
76.1	09:07:12	44.1	09:09:34	74.5	09:09:35
72.7	09:07:13	51.7	09:09:35	73.6	09:09:36
73.5	09:07:14	47.4	09:09:36	73.3	09:09:37
72.7	09:07:15	45	09:09:37	73.3	09:09:38
73.1	09:07:16	45.1	09:09:38	73.2	09:09:39
73.7	09:07:17	43.1	09:09:39	75.6	09:09:40
72	09:07:18	42.4	09:09:40	75.2	09:09:41
75.7	09:07:19	39.2	09:09:41	68.8	09:09:42
75.1	09:07:20	40.4	09:09:42	69	09:09:43
71.7	09:07:21	42.2	09:09:43	68.6	09:09:44
69	09:07:22	39	09:09:44	67.4	09:09:45
72.7	09:07:23	41.9	09:09:45	67.4	09:09:46
64.6	09:07:24	42.1	09:09:46	69.7	09:09:47
67.4	09:07:25	44.3	09:09:47	71	09:09:48
66.5	09:07:26	45	09:09:48	70.1	09:09:49
69.5	09:07:27	48.1	09:09:49	68.1	09:09:50
70.4	09:07:28	53.5	09:09:50	69.4	09:09:51
73.5	09:07:29	63.2	09:09:51	71.1	09:09:52
72	09:07:30	55	09:09:52	72.1	09:09:53
73.7	09:07:31	51	09:09:53	72.8	09:09:54
63.4	09:07:32	50.1	09:09:54	72	09:09:55
66.8	09:07:33	46.8	09:09:55	68.5	09:09:56
64.6	09:07:34	41.8	09:09:56	66.7	09:09:57
67.1	09:07:35	42.3	09:09:57	65.6	09:09:58
72.5	09:07:36	45.5	09:09:58	65.1	09:09:59
65.3	09:07:37	42.9	09:09:59	67.1	09:10:00
64.3	09:58:00	39	09:10:00	75.5	10:01:08
64.5	09:58:01	54.8	09:59:59	68.2	10:01:09
62.1	09:58:02	54.3	10:00:00	68.7	10:01:10
62.8	09:58:03	54.9	10:00:01	69.7	10:01:11
62.6	09:58:04	55.2	10:00:02	68.9	10:01:12
62.9	09:58:05	56.5	10:00:03	68.2	10:01:13
63.2	09:58:06	57	10:00:04	68.5	10:01:14
62.1	09:58:07	60.1	10:00:05	68.2	10:01:15
61.1	09:58:08	64.4	10:00:06	69.5	10:01:16
61.1	09:58:09	73	10:00:07	70	10:01:17
62.6	09:58:10	80	10:00:08	72.8	10:01:18
62.2	09:58:11	73.2	10:00:09	72.7	10:01:19
65.9	09:58:12	75.6	10:00:10	72.2	10:01:20
67.7	09:58:13	71.5	10:00:11	70	10:01:21
63.5	09:58:14	72.2	10:00:12	78.5	10:01:22
65.6	09:58:15	69.4	10:00:13	75.2	10:01:23

69.6	09:58:16	69.1	10:00:14	71	10:01:24
73.6	09:58:17	65.9	10:00:15	70.9	10:01:25
70.2	09:58:18	63.3	10:00:16	69.7	10:01:26
72.7	09:58:19	57.4	10:00:17	68.1	10:01:27
68.2	09:58:20	63.1	10:00:18	71.3	10:01:28
71.3	09:58:21	57.1	10:00:19	73.3	10:01:29
72.2	09:58:22	52.4	10:00:20	74.8	10:01:30
66.2	09:58:23	50.5	10:00:21	76	10:01:31
67.1	09:58:24	49.8	10:00:22	75	10:01:32
64.4	09:58:25	50.8	10:00:23	71.3	10:01:33
63.5	09:58:26	46.4	10:00:24	69.7	10:01:34
63.3	09:58:27	46.5	10:00:25	67.8	10:01:35
63.4	09:58:28	48.4	10:00:26	67.1	10:01:36
66.7	09:58:29	47.3	10:00:27	70.4	10:01:37
65.6	09:58:30	59.5	10:00:28	67.9	10:01:38
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64.4	09:58:32	45.8	10:00:30	68.3	10:01:40
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59.4	09:58:34	48.7	10:00:32	68.9	10:01:42
59.7	09:58:35	49	10:00:33	66.8	10:01:43
61.8	09:58:36	50.8	10:00:34	68	10:01:44
61.3	09:58:37	51.5	10:00:35	68.6	10:01:45
68.8	09:58:38	61.5	10:00:36	69.4	10:01:46
66.5	09:58:39	58.4	10:00:37	71.8	10:01:47
68.5	09:58:40	63.2	10:00:38	71.9	10:01:48
67.8	09:58:41	67.7	10:00:39	71.5	10:01:49
61.2	09:58:42	65.1	10:00:40	72.1	10:01:50
62.5	09:58:43	52.3	10:00:41	69	10:01:51
58.9	09:58:44	48.4	10:00:42	67.6	10:01:52
62.4	09:58:45	47.2	10:00:43	68.1	10:01:53
69.2	09:58:46	46.5	10:00:44	67.9	10:01:54
65.7	09:58:47	49.2	10:00:45	78.7	10:01:55
63.6	09:58:48	46.1	10:00:46	68.3	10:01:56
68.7	09:58:49	47.8	10:00:47	68	10:01:57
74	09:58:50	45.1	10:00:48	68.3	10:01:58
72.9	09:58:51	47.7	10:00:49	67.3	10:01:59
65.1	09:58:52	46.4	10:00:50	67.3	10:02:00
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64.2	09:58:55	45.9	10:00:53	70.1	10:02:03
63.1	09:58:56	46.9	10:00:54	69.3	10:02:04
63.8	09:58:57	52.3	10:00:55	69.4	10:02:05
62.9	09:58:58	48.3	10:00:56	70.6	10:02:06
62.9	09:58:59	49.8	10:00:57	70.4	10:02:07
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68.4	09:59:02	57.3	10:01:00	69.9	10:02:10
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61.2	09:59:04	70.2	10:01:02	72.3	10:02:12
64	09:59:05	64.8	10:01:03	73.3	10:02:13
62.3	09:59:06	64.7	10:01:04	70.4	10:02:14
63.8	09:59:07	64.2	10:01:05	70.5	10:02:15
64.3	09:59:08	66.1	10:01:06	71.1	10:02:16
62.3	09:59:09	67.6	10:01:07	69.7	10:02:17
62.9	09:59:10	69.4	10:01:08	69.1	10:02:18
62.3	09:59:11	70	10:01:09	70.6	10:02:19
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63.2	09:59:13	70.3	10:01:11	68.7	10:02:21
66.4	09:59:14	68	10:01:12	68.6	10:02:22
63.9	09:59:15	71.3	10:01:13	68.4	10:02:23
66.7	09:59:16	71.1	10:01:14	67.3	10:02:24
66.7	09:59:17	72.6	10:01:15	67.5	10:02:25
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67.7	09:59:20	63.6	10:01:18	67.4	10:02:28
66.9	09:59:21	65.3	10:01:19	67.1	10:02:29
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64.4	09:59:23	59.1	10:01:21	67.9	10:02:31
65.7	09:59:24	62.4	10:01:22	68.2	10:02:32
64.9	09:59:25	58.1	10:01:23	67.6	10:02:33
65.1	09:59:26	56.3	10:01:24	68.7	10:02:34
64.6	09:59:27	54.5	10:01:25	73.2	10:02:35
64.1	09:59:28	52.9	10:01:26	68.8	10:02:36
62.7	09:59:29	53.4	10:01:27	71.2	10:02:37
62.9	09:59:30	55.5	10:01:28	69.9	10:02:38
62.5	09:59:31	55.3	10:01:29	71.5	10:02:39
63	09:59:32	60.4	10:01:30	73.6	10:02:40
70.8	09:59:33	69	10:01:31	75.9	10:02:41
66	09:59:34	71.7	10:01:32	77.8	10:02:42
63.3	09:59:35	60.7	10:01:33	78.1	10:02:43
62.4	09:59:36	56.1	10:01:34	77.8	10:02:44
61.7	09:59:37	53.2	10:01:35	78.5	10:02:45
66.5	09:59:38	49.2	10:01:36	72.5	10:02:46
67.7	09:59:39	53.3	10:01:37	69.3	10:02:47
68.2	09:59:40	51.9	10:01:38	68.3	10:02:48
67.3	09:59:41	50	10:01:39	68.6	10:02:49
65.6	09:59:42	49.3	10:01:40	68	10:02:50
65.7	09:59:43	52	10:01:41	67.3	10:02:51
68.4	09:59:44	48.9	10:01:42	67.1	10:02:52
69.1	09:59:45	54.2	10:01:43	66.6	10:02:53
63.3	09:59:46	54	10:01:44	66.6	10:02:54
67	09:59:47	64.3	10:01:45	67	10:02:55

68.7	09:59:48	58.7	10:01:46	67.3	10:02:56
67	09:59:49	59.1	10:01:47	68.1	10:02:57
66.5	09:59:50	59.2	10:01:48	67.3	10:02:58
65.9	09:59:51	63.3	10:01:49	68.3	10:02:59
64.1	09:59:52	53.5	10:01:50	67.7	10:03:00
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63.8	09:59:54	54.4	10:01:52	71.5	10:03:02
67.4	09:59:55	56.5	10:01:53	70	10:03:03
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68.6	09:59:57	61	10:01:55	71.7	10:03:05
68.4	09:59:58	58.4	10:01:56	70.8	10:03:06
66.8	09:59:59	51.8	10:01:57	70.5	10:03:07
67.4	10:00:00	47.2	10:01:58	68.4	10:03:08
61.7	10:00:01	45.3	10:01:59	68.4	10:03:09
62.4	10:00:02	44.8	10:02:00	68.8	10:03:10
61.8	10:00:03	47.8	10:02:01	71	10:03:11
61.7	10:00:04	45.2	10:02:02	71.2	10:03:12
58.9	10:00:05	48.7	10:02:03	76.2	10:03:13
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57.9	10:00:07	48.5	10:02:05	71	10:03:15
61.2	10:00:08	47.4	10:02:06	69	10:03:16
65.4	10:00:09	49.4	10:02:07	68.2	10:03:17
68.8	10:00:10	47.7	10:02:08	67.5	10:03:18
73.1	10:00:11	50.5	10:02:09	68.1	10:03:19
71.7	10:00:12	48.8	10:02:10	68.7	10:03:20
63.7	10:00:13	50.2	10:02:11	69.5	10:03:21
62.4	10:00:14	46.2	10:02:12	71.2	10:03:22
61.5	10:00:15	45.1	10:02:13	69.1	10:03:23
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62.2	10:00:17	47.8	10:02:15	67.9	10:03:25
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63.2	10:00:19	45.8	10:02:17	70.5	10:03:27
62.3	10:00:20	50.7	10:02:18	70.3	10:03:28
65	10:00:21	51.5	10:02:19	70.9	10:03:29
62.2	10:00:22	52.1	10:02:20	72	10:03:30
63.4	10:00:23	56.7	10:02:21	69.8	10:03:31
63	10:00:24	62.4	10:02:22	68.9	10:03:32
61.1	10:00:25	61	10:02:23	68.6	10:03:33
62.5	10:00:26	68	10:02:24	69.2	10:03:34
63.3	10:00:27	59	10:02:25	70	10:03:35
62	10:00:28	51.1	10:02:26	71.7	10:03:36
65.1	10:00:29	50	10:02:27	72.6	10:03:37
66.8	10:00:30	46.6	10:02:28	72.9	10:03:38
65.3	10:00:31	45.8	10:02:29	72.1	10:03:39
64.9	10:00:32	46.3	10:02:30	71	10:03:40
64	10:00:33	44.8	10:02:31	72	10:03:41

61.6	10:00:34	44.1	10:02:32	72.1	10:03:42
60.8	10:00:35	47	10:02:33	70.3	10:03:43
60.6	10:00:36	47.4	10:02:34	69.9	10:03:44
61.6	10:00:37	47.6	10:02:35	69.6	10:03:45
58.6	10:00:38	50.5	10:02:36	68.8	10:03:46
59.1	10:00:39	48.6	10:02:37	69.7	10:03:47
60.6	10:00:40	48.2	10:02:38	69.5	10:03:48
61.3	10:00:41	46.9	10:02:39	68.7	10:03:49
60.4	10:00:42	51.2	10:02:40	68.9	10:03:50
61.3	10:00:43	50	10:02:41	70.4	10:03:51
58.2	10:00:44	54.3	10:02:42	69.7	10:03:52
52.8	10:00:45	54.2	10:02:43	70	10:03:53
56.4	10:00:46	55.1	10:02:44	68.4	10:03:54
59.8	10:00:47	57	10:02:45	68.5	10:03:55
59.3	10:00:48	51.8	10:02:46	68.1	10:03:56
59.8	10:00:49	54.8	10:02:47	67.1	10:03:57
54	10:00:50	56.3	10:02:48	67.5	10:03:58
54.6	10:00:51	62.3	10:02:49	67.9	10:03:59
53.8	10:00:52	63.1	10:02:50	69.1	10:04:00
55.1	10:00:53	65.8	10:02:51	68.2	10:04:01
57.8	10:00:54	67.6	10:02:52	68.1	10:04:02
57	10:00:55	69.2	10:02:53	69.3	10:04:03
54.9	10:00:56	67.5	10:02:54	70.5	10:04:04
56.6	10:00:57	67.9	10:02:55	68.7	10:04:05
59.4	10:00:58	70.5	10:02:56	68.7	10:04:06
57.1	10:00:59	69.5	10:02:57	68.7	10:04:07
59.9	10:01:00	62.6	10:02:58	67.7	10:04:08
64.3	10:01:01	66.5	10:02:59	69.2	10:04:09
63.8	10:01:02	66	10:03:00	68.3	10:04:10
62.5	10:01:03	61	10:03:01	68.2	10:04:11
59	10:01:04	58.8	10:03:02	67.6	10:04:12
58.2	10:01:05	57	10:03:03	68.7	10:04:13
55.4	10:01:06	53.6	10:03:04	67.9	10:04:14
59.3	10:01:07	49.1	10:03:05	67.6	10:04:15
59.2	10:01:08	55.4	10:03:06	67.6	10:04:16
57.5	10:01:09	50.2	10:03:07	67.9	10:04:17
61.5	10:01:10	51.8	10:03:08	69.4	10:04:18
60.7	10:01:11	52.5	10:03:09	69.3	10:04:19
62.2	10:01:12	55.3	10:03:10	69	10:04:20
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56.9	10:01:14	57.5	10:03:12	70.1	10:04:22
59.3	10:01:15	57.6	10:03:13	72.6	10:04:23
63.5	10:01:16	55.8	10:03:14	74.8	10:04:24
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64.8	10:01:18	56.6	10:03:16	80	10:04:26
62.1	10:01:19	56.5	10:03:17	76.7	10:04:27

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62.8	10:01:21	59.3	10:03:19	77	10:04:29
63.7	10:01:22	59.9	10:03:20	73.5	10:04:30
64.7	10:01:23	60.7	10:03:21	73.9	10:04:31
65.6	10:01:24	58.6	10:03:22	73.1	10:04:32
68.2	10:01:25	56	10:03:23	73	10:04:33
71.5	10:01:26	54.7	10:03:24	70.7	10:04:34
76.6	10:01:27	59.1	10:03:25	70.9	10:04:35
75.4	10:01:28	53.3	10:03:26	70.3	10:04:36
66.8	10:01:29	58.9	10:03:27	69.2	10:04:37
68.1	10:01:30	56.3	10:03:28	73.7	10:04:38
72.9	10:01:31	58.2	10:03:29	69	10:04:39
62.3	10:01:32	59.9	10:03:30	68.2	10:04:40
63.4	10:01:33	58.6	10:03:31	69.1	10:04:41
66.4	10:01:34	63.7	10:03:32	69.2	10:04:42
65.6	10:01:35	70.6	10:03:33	68.3	10:04:43
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68.4	10:01:39	66.3	10:03:37	69.3	10:04:47
72	10:01:40	64.9	10:03:38	69.5	10:04:48
71.1	10:01:41	60.7	10:03:39	69.1	10:04:49
63.5	10:01:42	60.6	10:03:40	68.8	10:04:50
58.3	10:01:43	57	10:03:41	71.5	10:04:51
59	10:01:44	56.5	10:03:42	69.1	10:04:52
61.2	10:01:45	57.6	10:03:43	69.6	10:04:53
60.1	10:01:46	54.9	10:03:44	70.7	10:04:54
57.3	10:01:47	53.9	10:03:45	69.9	10:04:55
58.3	10:01:48	52.3	10:03:46	68.9	10:04:56
58.9	10:01:49	53	10:03:47	69.3	10:04:57
61	10:01:50	55.4	10:03:48	68.8	10:04:58
61.2	10:01:51	56	10:03:49	68.6	10:04:59
67.1	10:01:52	52.3	10:03:50	70.6	10:05:00
64.8	10:01:53	50.3	10:03:51	69.8	10:05:01
60.7	10:01:54	47.8	10:03:52	72.3	10:05:02
62	10:01:55	52.6	10:03:53	72.1	10:05:03
61.7	10:01:56	48.2	10:03:54	70.8	10:05:04
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69.3	10:01:58	51.4	10:03:56	72.1	10:05:06
68.6	10:01:59	51.8	10:03:57	72.4	10:05:07
66.9	10:02:00	55.7	10:03:58	70.9	10:05:08
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69.3	10:02:03	54.2	10:04:01	70.2	10:05:11
66.5	10:02:04	48.5	10:04:02	71.8	10:05:12
63.9	10:02:05	50.8	10:04:03	71.2	10:05:13
64.9	10:02:06	48.3	10:04:04	72.1	10:05:14
63.7	10:02:07	53.7	10:04:05	72.8	10:05:15
63.5	10:02:08	48.9	10:04:06	77.2	10:05:16
59.7	10:02:09	50.3	10:04:07	71.4	10:05:17
60.5	10:02:10	48.1	10:04:08	74.4	10:05:18
57.8	10:02:11	55.4	10:04:09	69.1	10:05:19
59	10:02:12	48.8	10:04:10	69.5	10:05:20
59.4	10:02:13	58.1	10:04:11	68.7	10:05:21
60.2	10:02:14	51.6	10:04:12	74	10:05:22
59.7	10:02:15	52.8	10:04:13	69.6	10:05:23
58.1	10:02:16	59.1	10:04:14	70.9	10:05:24
57.8	10:02:17	57.1	10:04:15	70.2	10:05:25
59.3	10:02:18	58	10:04:16	70.4	10:05:26
59.8	10:02:19	63.7	10:04:17	71.6	10:05:27
64.1	10:02:20	61.7	10:04:18	70.9	10:05:28
65	10:02:21	62.4	10:04:19	75.7	10:05:29
65	10:02:22	66.9	10:04:20	70.9	10:05:30
63.4	10:02:23	68.1	10:04:21	71.1	10:05:31
69.5	10:02:24	70.8	10:04:22	69.8	10:05:32
67.5	10:02:25	70.2	10:04:23	70.5	10:05:33
69.2	10:02:26	72.1	10:04:24	69.2	10:05:34
75	10:02:27	73	10:04:25	69.8	10:05:35
68	10:02:28	70.2	10:04:26	67.5	10:05:36
63.6	10:02:29	72.8	10:04:27	72.7	10:05:37
71.1	10:02:30	72.1	10:04:28	67.5	10:05:38
71.6	10:02:31	71.3	10:04:29	67.7	10:05:39
71.9	10:02:32	69.4	10:04:30	69.8	10:05:40
65.3	10:02:33	68	10:04:31	70.8	10:05:41
64.8	10:02:34	66.2	10:04:32	71.1	10:05:42
66.9	10:02:35	63.8	10:04:33	71.5	10:05:43
66.5	10:02:36	65.2	10:04:34	71.8	10:05:44
69	10:02:37	68	10:04:35	71.7	10:05:45
66.4	10:02:38	66.7	10:04:36	75.4	10:05:46
70.5	10:02:39	60.8	10:04:37	75.5	10:05:47
68.7	10:02:40	59.6	10:04:38	82.9	10:05:48
69.2	10:02:41	59.1	10:04:39	83.3	10:05:49
65	10:02:42	62	10:04:40	73.5	10:05:50
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62.2	10:02:44	57.4	10:04:42	69.4	10:05:52
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64.8	10:02:50	60.9	10:04:48	72.2	10:05:58
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61.1	10:03:24	56.2	10:05:22	70	10:06:32
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54.2	10:03:51	50.1	10:05:49	77.4	10:06:59
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73.4	10:04:06	60.2	10:06:04	72.3	10:07:14
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63.1	10:04:34	55.4	10:06:32	67.1	10:07:42
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63.4	10:04:36	56.5	10:06:34	68	10:07:44
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66.3	10:04:52	57.2	10:06:50	77.3	10:08:00
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67.1	10:05:26	71	10:07:24	68.3	10:08:34
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61.9	10:05:44	58.1	10:07:42	69.2	10:08:52
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68.4	10:05:46	56.5	10:07:44	71.3	10:08:54
66.1	10:05:47	56.7	10:07:45	69.5	10:08:55
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75.8	10:05:51	64.5	10:07:49	70.2	10:08:59
67.3	10:05:52	60.9	10:07:50	69.2	10:09:00
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61.2	10:06:32	71.4	10:08:30	68.2	10:09:40
59.9	10:06:33	73.3	10:08:31	68.7	10:09:41
58.7	10:06:34	72.4	10:08:32	69.5	10:09:42
59.8	10:06:35	75.1	10:08:33	68.7	10:09:43
59	10:06:36	73.1	10:08:34	69.4	10:09:44
60.8	10:06:37	66.1	10:08:35	68.3	10:09:45
62.4	10:06:38	76.7	10:08:36	69.6	10:09:46
63.5	10:06:39	64.2	10:08:37	68.9	10:09:47
63.1	10:06:40	76.6	10:08:38	69	10:09:48
66.7	10:06:41	67.6	10:08:39	69.2	10:09:49

67.6	10:06:42	57	10:08:40	67.4	10:09:50
66.6	10:06:43	57.6	10:08:41	67.1	10:09:51
64.3	10:06:44	54.5	10:08:42	67.9	10:09:52
66.1	10:06:45	56.2	10:08:43	67.4	10:09:53
67.5	10:06:46	69.9	10:08:44	66.6	10:09:54
68.4	10:06:47	58.4	10:08:45	68	10:09:55
70.8	10:06:48	58.3	10:08:46	67.5	10:09:56
70.3	10:06:49	58.4	10:08:47	67	10:09:57
69.7	10:06:50	56.6	10:08:48	68.1	10:09:58
69.1	10:06:51	59.8	10:08:49	67.5	10:09:59
68.5	10:06:52	53.6	10:08:50	67	10:10:00
67.7	10:06:53	52.9	10:08:51	66.6	10:10:01
65.5	10:06:54	67.6	10:08:52	66.3	10:10:02
65.8	10:06:55	47.7	10:08:53	66.5	10:10:03
65.4	10:06:56	46.8	10:08:54	67.5	10:10:04
65.3	10:06:57	52.2	10:08:55	71.2	10:10:05
66	10:06:58	69.8	10:08:56	71.2	10:10:06
67.6	10:06:59	61.7	10:08:57	71.9	10:10:07
65.6	10:07:00	65.9	10:08:58	68.2	10:10:08
66	10:07:01	67.9	10:08:59	71.8	10:10:09
67	10:07:02	64.3	10:09:00	69.5	10:10:10
65.9	10:07:03	61.9	10:09:01	69.9	10:10:11
65.4	10:07:04	56.5	10:09:02	70.4	10:10:12
62.6	10:07:05	68.2	10:09:03	72.7	10:10:13
62.1	10:07:06	57.3	10:09:04	71.9	10:10:14
62.1	10:07:07	55.8	10:09:05	68.1	10:10:15
61.6	10:07:08	53.1	10:09:06	68.7	10:10:16
63.6	10:07:09	62.4	10:09:07	68.9	10:10:17
64.8	10:07:10	63.6	10:09:08	69.1	10:10:18
64.7	10:07:11	83.1	10:09:09	70.8	10:10:19
64.9	10:07:12	57.3	10:09:10	69.8	10:10:20
63.7	10:07:13	58.1	10:09:11	74.2	10:10:21
62.9	10:07:14	58.6	10:09:12	72.6	10:10:22
62.7	10:07:15	57.8	10:09:13	69.8	10:10:23
61.2	10:07:16	58.8	10:09:14	68.8	10:10:24
63	10:07:17	61.5	10:09:15	69	10:10:25
63.7	10:07:18	63.8	10:09:16	67.3	10:10:26
62.8	10:07:19	64.9	10:09:17	71.6	10:10:27
59.5	10:07:20	59.6	10:09:18	72.8	10:10:28
58.9	10:07:21	57.2	10:09:19	71.8	10:10:29
56	10:07:22	52.9	10:09:20	78.9	10:10:30
58.5	10:07:23	50.9	10:09:21	74.3	10:10:31
59.5	10:07:24	54.7	10:09:22	69	10:10:32
61.2	10:07:25	51.7	10:09:23	62.5	10:10:33
59.7	10:07:26	58.4	10:09:24	66	10:10:34
58.2	10:07:27	57	10:09:25	66.1	10:10:35

62.4	10:07:28	56.6	10:09:26	70.8	10:10:36
63.6	10:07:29	56	10:09:27	67.1	10:10:37
66.4	10:07:30	54.8	10:09:28	67	10:10:38
71.1	10:07:31	54.3	10:09:29	66.9	10:10:39
72.7	10:07:32	52.6	10:09:30	66.9	10:10:40
73.4	10:07:33	54.3	10:09:31	67.6	10:10:41
66.6	10:07:34	54.2	10:09:32	67.9	10:10:42
69.8	10:07:35	56.5	10:09:33	66.8	10:10:43
69.4	10:07:36	62.5	10:09:34	68.1	10:10:44
64	10:07:37	59.6	10:09:35	71.4	10:10:45
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63.7	10:07:39	54.7	10:09:37	67.9	10:10:47
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65.1	10:07:44	54	10:09:42	70.1	10:10:52
64.3	10:07:45	53.6	10:09:43	70.2	10:10:53
62.7	10:07:46	52.4	10:09:44	71.3	10:10:54
66.8	10:07:47	53.7	10:09:45	70.2	10:10:55
65.1	10:07:48	58.8	10:09:46	70.7	10:10:56
62.6	10:07:49	57	10:09:47	67.6	10:10:57
63.9	10:07:50	58	10:09:48	68.5	10:10:58
69.4	10:07:51	67.5	10:09:49	68.8	10:10:59
67.9	10:07:52	68.5	10:09:50	69.1	10:11:00
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68.7	10:07:55	69.9	10:09:53	72.8	10:11:03
71.7	10:07:56	60.5	10:09:54	77.3	10:11:04
71.8	10:07:57	60.2	10:09:55	81.1	10:11:05
70	10:07:58	62.2	10:09:56	74.5	10:11:06
67	10:07:59	59.6	10:09:57	72	10:11:07
58.5	10:08:00	55.1	10:09:58	67.8	10:11:08
62	10:08:01	57.1	10:09:59	68.5	10:11:09
62.4	10:08:02	57.6	10:10:00	67.5	10:11:10
63.1	10:58:08	58.2	10:10:01	71.5	10:59:58
60.8	10:58:09	48.9	11:00:00	70.1	10:59:59
62.4	10:58:10	46.8	11:00:01	67.6	11:00:00
62.3	10:58:11	49	11:00:02	67.4	11:00:01
61	10:58:12	48.8	11:00:03	68.2	11:00:02
68.1	10:58:13	47.7	11:00:04	72.7	11:00:03
55.9	10:58:14	45.9	11:00:05	75	11:00:04
56.2	10:58:15	50.7	11:00:06	74.4	11:00:05
57.3	10:58:16	45.8	11:00:07	71.3	11:00:06
62.4	10:58:17	49.9	11:00:08	70.5	11:00:07
66.3	10:58:18	46.7	11:00:09	68.7	11:00:08

65.1	10:58:19	48	11:00:10	67.6	11:00:09
57.9	10:58:20	44.8	11:00:11	66.1	11:00:10
59.2	10:58:21	46.1	11:00:12	67.7	11:00:11
60.6	10:58:22	46.5	11:00:13	66.8	11:00:12
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64.8	10:58:24	47	11:00:15	68.6	11:00:14
58.7	10:58:25	48.7	11:00:16	79.3	11:00:15
62.5	10:58:26	49.6	11:00:17	82.8	11:00:16
60	10:58:27	52.9	11:00:18	62	11:00:17
58	10:58:28	56.3	11:00:19	65.3	11:00:18
59.3	10:58:29	56.1	11:00:20	65	11:00:19
59.6	10:58:30	59.3	11:00:21	59	11:00:20
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73.7	10:58:33	65.4	11:00:24	60.2	11:00:23
74.4	10:58:34	63.7	11:00:25	63.9	11:00:24
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62.6	10:58:36	59.1	11:00:27	66.1	11:00:26
66.4	10:58:37	59.2	11:00:28	66.7	11:00:27
69.3	10:58:38	56.8	11:00:29	66	11:00:28
65	10:58:39	57.2	11:00:30	67	11:00:29
64.1	10:58:40	50	11:00:31	67.8	11:00:30
61.8	10:58:41	56.9	11:00:32	72.2	11:00:31
64.2	10:58:42	46.6	11:00:33	72.9	11:00:32
71.9	10:58:43	44.8	11:00:34	72.4	11:00:33
63.4	10:58:44	44	11:00:35	71.8	11:00:34
71.9	10:58:45	47.1	11:00:36	70.6	11:00:35
70.2	10:58:46	50.1	11:00:37	70.7	11:00:36
68.9	10:58:47	47.8	11:00:38	72.5	11:00:37
67.5	10:58:48	46.2	11:00:39	68.6	11:00:38
66.6	10:58:49	46.7	11:00:40	68.6	11:00:39
65.8	10:58:50	45.7	11:00:41	68.8	11:00:40
68.3	10:58:51	46.8	11:00:42	70.4	11:00:41
73	10:58:52	61.4	11:00:43	69	11:00:42
65.4	10:58:53	58.8	11:00:44	70.7	11:00:43
63.7	10:58:54	57.4	11:00:45	74.3	11:00:44
66.4	10:58:55	56.3	11:00:46	75.1	11:00:45
70.4	10:58:56	54.7	11:00:47	72.8	11:00:46
66.4	10:58:57	53.2	11:00:48	70.9	11:00:47
67.2	10:58:58	52.6	11:00:49	72.1	11:00:48
66.9	10:58:59	50.8	11:00:50	70	11:00:49
67.4	10:59:00	48.9	11:00:51	73.2	11:00:50
64.8	10:59:01	48.6	11:00:52	72.1	11:00:51
68.6	10:59:02	48.5	11:00:53	68.4	11:00:52
67.9	10:59:03	49	11:00:54	69.4	11:00:53
72.7	10:59:04	47.3	11:00:55	70.2	11:00:54

75.9	10:59:05	43.3	11:00:56	69.6	11:00:55
72.9	10:59:06	42.2	11:00:57	73.3	11:00:56
74.7	10:59:07	43.4	11:00:58	75.4	11:00:57
66.6	10:59:08	44.2	11:00:59	75.6	11:00:58
65.2	10:59:09	45.4	11:01:00	72.7	11:00:59
69	10:59:10	48.1	11:01:01	67.8	11:01:00
68.7	10:59:11	52.3	11:01:02	64.5	11:01:01
70	10:59:12	56.9	11:01:03	64.6	11:01:02
70.4	10:59:13	50.6	11:01:04	64.6	11:01:03
71.8	10:59:14	53	11:01:05	66.1	11:01:04
74.7	10:59:15	52.6	11:01:06	68.6	11:01:05
73.9	10:59:16	50.8	11:01:07	70.7	11:01:06
75.1	10:59:17	47.7	11:01:08	71.4	11:01:07
75.7	10:59:18	46.8	11:01:09	71	11:01:08
75.2	10:59:19	47.1	11:01:10	73.9	11:01:09
72.9	10:59:20	46.3	11:01:11	71.5	11:01:10
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67.3	10:59:23	42.9	11:01:14	71.1	11:01:13
65.2	10:59:24	43.4	11:01:15	68.5	11:01:14
62	10:59:25	47.1	11:01:16	69.3	11:01:15
63.8	10:59:26	46.6	11:01:17	70.7	11:01:16
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61	10:59:32	52.6	11:01:23	66.3	11:01:22
62.1	10:59:33	57.1	11:01:24	64.2	11:01:23
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59.3	10:59:37	49.7	11:01:28	73	11:01:27
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64.7	10:59:42	48.3	11:01:33	67.4	11:01:32
64.8	10:59:43	48.4	11:01:34	60.7	11:01:33
65.5	10:59:44	47.2	11:01:35	61.6	11:01:34
62.5	10:59:45	46.9	11:01:36	64.7	11:01:35
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62.8	10:59:47	49.5	11:01:38	70.4	11:01:37
63.1	10:59:48	51.4	11:01:39	67.1	11:01:38
64.2	10:59:49	52.5	11:01:40	67.3	11:01:39
68.1	10:59:50	54.2	11:01:41	67.8	11:01:40

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68	10:59:56	52.5	11:01:47	68.5	11:01:46
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64.6	10:59:58	48.1	11:01:49	68.3	11:01:48
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65.1	11:00:00	51	11:01:51	65.6	11:01:50
65.2	11:00:01	48.6	11:01:52	69.4	11:01:51
64.5	11:00:02	48.6	11:01:53	74.2	11:01:52
63.7	11:00:03	51.8	11:01:54	82.6	11:01:53
63.8	11:00:04	54.9	11:01:55	69.4	11:01:54
63.4	11:00:05	57.2	11:01:56	67.6	11:01:55
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67.8	11:00:07	53.9	11:01:58	74	11:01:57
68.3	11:00:08	51.8	11:01:59	73.5	11:01:58
62.3	11:00:09	50.6	11:02:00	72	11:01:59
67.7	11:00:10	51.6	11:02:01	68.3	11:02:00
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62.2	11:00:13	50.5	11:02:04	66.6	11:02:03
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61.4	11:00:18	49.5	11:02:09	69.1	11:02:08
60.9	11:00:19	50.3	11:02:10	67.5	11:02:09
61	11:00:20	51.8	11:02:11	69.6	11:02:10
67.1	11:00:21	50.4	11:02:12	72.8	11:02:11
69.9	11:00:22	49.6	11:02:13	69.3	11:02:12
62.7	11:00:23	50.2	11:02:14	69.1	11:02:13
62.4	11:00:24	48	11:02:15	70.4	11:02:14
66.6	11:00:25	48.4	11:02:16	73.1	11:02:15
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67.2	11:00:28	49.2	11:02:19	66.5	11:02:18
67.2	11:00:29	47.9	11:02:20	70.6	11:02:19
66.8	11:00:30	49.1	11:02:21	74	11:02:20
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68.2	11:00:32	47.1	11:02:23	73.2	11:02:22
67.1	11:00:33	47.2	11:02:24	71.6	11:02:23
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66.6	11:00:35	51.5	11:02:26	69.8	11:02:25
67.3	11:00:36	50.1	11:02:27	70.9	11:02:26

66.7	11:00:37	49.6	11:02:28	70.3	11:02:27
66.2	11:00:38	44.8	11:02:29	69.7	11:02:28
67.5	11:00:39	46.5	11:02:30	67.1	11:02:29
69.9	11:00:40	45.2	11:02:31	65.5	11:02:30
72.3	11:00:41	48.2	11:02:32	67	11:02:31
68.9	11:00:42	47.2	11:02:33	78.8	11:02:32
72.7	11:00:43	46.5	11:02:34	70.2	11:02:33
72.5	11:00:44	46.1	11:02:35	70	11:02:34
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66.3	11:00:48	50.1	11:02:39	70	11:02:38
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63.1	11:00:52	53.5	11:02:43	76.1	11:02:42
66.4	11:00:53	51	11:02:44	73.7	11:02:43
64	11:00:54	49.8	11:02:45	69.8	11:02:44
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67.4	11:00:58	53.5	11:02:49	70	11:02:48
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66.3	11:01:00	64	11:02:51	67.8	11:02:50
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63.5	11:01:02	60.5	11:02:53	66.6	11:02:52
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64.4	11:01:04	54.2	11:02:55	65.6	11:02:54
64.7	11:01:05	49.9	11:02:56	66.3	11:02:55
65.6	11:01:06	49.9	11:02:57	72.6	11:02:56
66.1	11:01:07	50.5	11:02:58	69.6	11:02:57
67.5	11:01:08	48.2	11:02:59	68.4	11:02:58
67	11:01:09	48.2	11:03:00	70.5	11:02:59
67.5	11:01:10	49.2	11:03:01	73.5	11:03:00
65.6	11:01:11	46.7	11:03:02	72.9	11:03:01
63.7	11:01:12	49.4	11:03:03	71	11:03:02
64.4	11:01:13	46.5	11:03:04	70.6	11:03:03
65.6	11:01:14	47.7	11:03:05	67.5	11:03:04
65	11:01:15	45.8	11:03:06	66.1	11:03:05
63.1	11:01:16	47.1	11:03:07	65.7	11:03:06
66.1	11:01:17	46.2	11:03:08	66.4	11:03:07
65.9	11:01:18	47	11:03:09	69	11:03:08
64.5	11:01:19	49.8	11:03:10	72.4	11:03:09
66.2	11:01:20	46.3	11:03:11	70.1	11:03:10
72	11:01:21	47.7	11:03:12	68.5	11:03:11
72.6	11:01:22	50.7	11:03:13	68.5	11:03:12

66.1	11:01:23	57.9	11:03:14	74.9	11:03:13
62.2	11:01:24	53.7	11:03:15	76.4	11:03:14
61.8	11:01:25	49.3	11:03:16	79.4	11:03:15
61.2	11:01:26	49.7	11:03:17	76.1	11:03:16
63.4	11:01:27	48.6	11:03:18	84.7	11:03:17
59.6	11:01:28	49.1	11:03:19	87.6	11:03:18
59.2	11:01:29	47.1	11:03:20	81	11:03:19
60.1	11:01:30	45.2	11:03:21	78.7	11:03:20
61.8	11:01:31	45	11:03:22	76.6	11:03:21
63.9	11:01:32	46.1	11:03:23	78.2	11:03:22
63.1	11:01:33	48	11:03:24	79.1	11:03:23
63.1	11:01:34	47	11:03:25	87.1	11:03:24
65.5	11:01:35	48.7	11:03:26	84.4	11:03:25
64.3	11:01:36	47.8	11:03:27	77.3	11:03:26
64.4	11:01:37	47.7	11:03:28	76.6	11:03:27
63.2	11:01:38	45.6	11:03:29	72.7	11:03:28
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65.8	11:01:42	47.6	11:03:33	72.7	11:03:32
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61.4	11:01:45	47.5	11:03:36	67.6	11:03:35
60.7	11:01:46	48.5	11:03:37	67.5	11:03:36
60	11:01:47	47.2	11:03:38	68.8	11:03:37
58.5	11:01:48	47.1	11:03:39	67.8	11:03:38
58.2	11:01:49	49.7	11:03:40	65.2	11:03:39
58.9	11:01:50	49.1	11:03:41	62.8	11:03:40
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59.7	11:01:54	47.5	11:03:45	70.4	11:03:44
58.6	11:01:55	48.1	11:03:46	69.2	11:03:45
61	11:01:56	48.8	11:03:47	66.3	11:03:46
62.7	11:01:57	50.1	11:03:48	67.3	11:03:47
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62.1	11:01:59	52	11:03:50	68.2	11:03:49
62.5	11:02:00	53.7	11:03:51	66.2	11:03:50
62.5	11:02:01	55.7	11:03:52	61.7	11:03:51
65.2	11:02:02	59.2	11:03:53	65.2	11:03:52
69.9	11:02:03	63.6	11:03:54	68.7	11:03:53
65.3	11:02:04	60.4	11:03:55	71.2	11:03:54
62.2	11:02:05	57.3	11:03:56	71.1	11:03:55
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62.6	11:02:08	50.3	11:03:59	67.4	11:03:58

63.7	11:02:09	50.8	11:04:00	70.3	11:03:59
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62.9	11:02:13	55.1	11:04:04	67.8	11:04:03
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63	11:02:37	49.3	11:04:28	68.6	11:04:27
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59.7	11:02:46	41	11:04:37	70.5	11:04:36
58.1	11:02:47	41.4	11:04:38	71.3	11:04:37
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68.7	11:02:52	45.6	11:04:43	66.3	11:04:42
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68.4	11:02:58	47.8	11:04:49	71.5	11:04:48
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71.5	11:03:00	44.4	11:04:51	69.3	11:04:50
73	11:03:01	42.4	11:04:52	68.8	11:04:51
70.5	11:03:02	40.5	11:04:53	70.5	11:04:52
71.2	11:03:03	43.1	11:04:54	69.9	11:04:53
68.3	11:03:04	41.4	11:04:55	71.9	11:04:54
67	11:03:05	43.9	11:04:56	72.1	11:04:55
64.6	11:03:06	42.7	11:04:57	72.2	11:04:56
64.5	11:03:07	47.3	11:04:58	74	11:04:57
63.6	11:03:08	47.6	11:04:59	74.5	11:04:58
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62.4	11:03:30	53.3	11:05:21	72.3	11:05:20
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69.2	11:03:39	45.9	11:05:30	71.3	11:05:29
66.3	11:03:40	43.4	11:05:31	70	11:05:30

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63	11:04:05	69.7	11:05:56	79.2	11:05:55
67	11:04:06	66.7	11:05:57	77.6	11:05:56
68.2	11:04:07	65.2	11:05:58	76.8	11:05:57
67.1	11:04:08	62.7	11:05:59	75.2	11:05:58
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62.1	11:04:10	61.8	11:06:01	71.9	11:06:00
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64.3	11:05:32	57.6	11:07:23	72.4	11:07:22
67.2	11:05:33	59.4	11:07:24	74.3	11:07:23
66.5	11:05:34	58.9	11:07:25	69.9	11:07:24
62	11:05:35	58.3	11:07:26	70.9	11:07:25
65.4	11:05:36	59.5	11:07:27	69.3	11:07:26
67.4	11:05:37	60.8	11:07:28	67.2	11:07:27
66.8	11:05:38	63.2	11:07:29	66	11:07:28
64	11:05:39	61.4	11:07:30	62.1	11:07:29
65	11:05:40	64.7	11:07:31	62.2	11:07:30
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63	11:05:43	59.4	11:07:34	69	11:07:33
66.2	11:05:44	60	11:07:35	70.9	11:07:34
66.3	11:05:45	57.4	11:07:36	71.4	11:07:35
65.8	11:05:46	58.1	11:07:37	68.5	11:07:36
65.6	11:05:47	58.9	11:07:38	66.9	11:07:37
64.7	11:05:48	58.7	11:07:39	67.6	11:07:38
66.5	11:05:49	58.3	11:07:40	72.2	11:07:39
68.1	11:05:50	59	11:07:41	76.6	11:07:40
70	11:05:51	59.5	11:07:42	67.5	11:07:41
69.3	11:05:52	60.5	11:07:43	65.3	11:07:42
70.6	11:05:53	57.7	11:07:44	66.9	11:07:43
68.1	11:05:54	57.3	11:07:45	68	11:07:44
67.2	11:05:55	57.5	11:07:46	73	11:07:45
67.2	11:05:56	57	11:07:47	74	11:07:46
67.7	11:05:57	55.8	11:07:48	65.5	11:07:47
69.9	11:05:58	60.7	11:07:49	61.9	11:07:48

68.9	11:05:59	57.3	11:07:50	60.7	11:07:49
69	11:06:00	59.3	11:07:51	72	11:07:50
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66.7	11:06:02	62.5	11:07:53	68.3	11:07:52
65.6	11:06:03	60.8	11:07:54	69.4	11:07:53
68.6	11:06:04	63.3	11:07:55	72.2	11:07:54
68.3	11:06:05	60	11:07:56	68.7	11:07:55
68.1	11:06:06	58.9	11:07:57	71	11:07:56
67.4	11:06:07	56.5	11:07:58	71.2	11:07:57
70.2	11:06:08	56.9	11:07:59	69.7	11:07:58
68.8	11:06:09	58.9	11:08:00	67.2	11:07:59
67.8	11:06:10	58.4	11:08:01	65.9	11:08:00
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69.9	11:06:14	65.4	11:08:05	69.1	11:08:04
68.3	11:06:15	60.4	11:08:06	67.4	11:08:05
66.9	11:06:16	58.1	11:08:07	67.8	11:08:06
67.1	11:06:17	60.1	11:08:08	68.7	11:08:07
63.8	11:06:18	60.1	11:08:09	68.4	11:08:08
68.7	11:06:19	60.7	11:08:10	70.2	11:08:09
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62.9	11:06:26	55.3	11:08:17	69.7	11:08:16
66.5	11:06:27	57.4	11:08:18	68.7	11:08:17
62.1	11:06:28	52.3	11:08:19	70.3	11:08:18
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66.2	11:06:38	54	11:08:29	71.5	11:08:28
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66	11:06:46	55.4	11:08:37	67.2	11:08:36
62.6	11:06:47	55.6	11:08:38	66.8	11:08:37
61.8	11:06:48	56.3	11:08:39	64.4	11:08:38
61.9	11:06:49	57.8	11:08:40	64.9	11:08:39
63.1	11:06:50	59.8	11:08:41	66.3	11:08:40
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61.3	11:06:52	59.3	11:08:43	66.6	11:08:42
62	11:06:53	57.8	11:08:44	66.4	11:08:43
62.3	11:06:54	57	11:08:45	68.4	11:08:44
64	11:06:55	56.8	11:08:46	71.6	11:08:45
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65.2	11:06:57	57.4	11:08:48	82.4	11:08:47
64.4	11:06:58	56.7	11:08:49	82.5	11:08:48
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64.5	11:07:00	56.1	11:08:51	79.8	11:08:50
61.2	11:07:01	59.1	11:08:52	78.1	11:08:51
62.1	11:07:02	68.5	11:08:53	78.6	11:08:52
63.2	11:07:03	65.1	11:08:54	77.1	11:08:53
66.2	11:07:04	57.4	11:08:55	76.4	11:08:54
65.1	11:07:05	58.2	11:08:56	76.9	11:08:55
65.4	11:07:06	72.5	11:08:57	76.3	11:08:56
65.4	11:07:07	71.6	11:08:58	76.8	11:08:57
66.5	11:07:08	70.4	11:08:59	76	11:08:58
63	11:07:09	70.6	11:09:00	75.7	11:08:59
63.5	11:07:10	57	11:09:01	75.1	11:09:00
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68.6	11:07:12	56.6	11:09:03	74.6	11:09:02
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67.7	11:07:14	60.9	11:09:05	74.8	11:09:04
66	11:07:15	79.9	11:09:06	71.3	11:09:05
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68.3	11:07:21	70.5	11:09:12	74.4	11:09:11
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68.2	11:07:23	72	11:09:14	66.8	11:09:13
67.3	11:07:24	77.1	11:09:15	68.3	11:09:14
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66.7	11:07:26	75.3	11:09:17	73.7	11:09:16
67.2	11:07:27	69.5	11:09:18	68.6	11:09:17
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68	11:07:30	62.5	11:09:21	77.3	11:09:20

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63.9	11:07:48	67.9	11:09:39	69	11:09:38
71.6	11:07:49	74.2	11:09:40	70.4	11:09:39
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62.1	11:07:51	76.8	11:09:42	70	11:09:41
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69.1	11:07:57	62.3	11:09:48	67.4	11:09:47
66.4	11:07:58	65.4	11:09:49	68.3	11:09:48
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66.3	11:08:04	61.4	11:09:55	68.2	11:09:54
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63.5	11:08:07	61.5	11:09:58	70	11:09:57
83.2	11:08:08	60	11:09:59	69	11:09:58
65.1	11:08:09	60.1	11:10:00	70.6	11:09:59
64.4	11:08:10	62.1	11:10:01	70.3	11:10:00
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67.9	11:59:00	74.4	12:00:00	70.2	12:00:00
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63.1	11:59:03	72	12:00:03	62.5	12:00:03
64.2	11:59:04	69.4	12:00:04	65.2	12:00:04

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66.3	11:59:07	63.9	12:00:07	71.8	12:00:07
62.1	11:59:08	47	12:00:08	76.3	12:00:08
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61.1	11:59:12	49.5	12:00:12	72.4	12:00:12
73	11:59:13	46.2	12:00:13	67.3	12:00:13
65.2	11:59:14	49.1	12:00:14	67	12:00:14
69.5	11:59:15	50.9	12:00:15	70.3	12:00:15
68.9	11:59:16	62.5	12:00:16	72.8	12:00:16
61	11:59:17	45.7	12:00:17	69.6	12:00:17
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76.9	11:59:20	45.5	12:00:20	70.4	12:00:20
62.1	11:59:21	49.7	12:00:21	71.8	12:00:21
65	11:59:22	52.1	12:00:22	74.7	12:00:22
63.5	11:59:23	53.6	12:00:23	74.6	12:00:23
63.5	11:59:24	55.7	12:00:24	72.6	12:00:24
62.1	11:59:25	55	12:00:25	72.1	12:00:25
61.4	11:59:26	63.4	12:00:26	75	12:00:26
63.8	11:59:27	56.9	12:00:27	69	12:00:27
62.1	11:59:28	62.4	12:00:28	66.4	12:00:28
63.2	11:59:29	61.1	12:00:29	65.9	12:00:29
62.7	11:59:30	58.2	12:00:30	67.8	12:00:30
65.1	11:59:31	55.4	12:00:31	67.6	12:00:31
65.5	11:59:32	53.3	12:00:32	72.4	12:00:32
66.3	11:59:33	51.9	12:00:33	73.5	12:00:33
69.2	11:59:34	50.5	12:00:34	77.9	12:00:34
66.9	11:59:35	50.3	12:00:35	72.7	12:00:35
68.6	11:59:36	53.2	12:00:36	71.9	12:00:36
67.3	11:59:37	53	12:00:37	70.2	12:00:37
64.9	11:59:38	53.7	12:00:38	71	12:00:38
66.2	11:59:39	61	12:00:39	72.7	12:00:39
64.7	11:59:40	58.8	12:00:40	74	12:00:40
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65.7	11:59:42	53.2	12:00:42	72.2	12:00:42
64.6	11:59:43	50.7	12:00:43	73.8	12:00:43
61.5	11:59:44	50.1	12:00:44	72.5	12:00:44
60.3	11:59:45	53.4	12:00:45	66.9	12:00:45
64.4	11:59:46	57.6	12:00:46	67	12:00:46
72.3	11:59:47	47.6	12:00:47	64.1	12:00:47
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63.9	11:59:49	47	12:00:49	64.4	12:00:49
64	11:59:50	46.6	12:00:50	61.7	12:00:50

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63.9	11:59:52	54.6	12:00:52	66.6	12:00:52
63.6	11:59:53	65.3	12:00:53	66.1	12:00:53
64.8	11:59:54	61.9	12:00:54	67.7	12:00:54
62.1	11:59:55	57.3	12:00:55	66.3	12:00:55
64.2	11:59:56	50.8	12:00:56	69.7	12:00:56
64.1	11:59:57	47.3	12:00:57	69.7	12:00:57
66.2	11:59:58	49.3	12:00:58	65.6	12:00:58
66.1	11:59:59	51.1	12:00:59	70.8	12:00:59
67.5	12:00:00	62.4	12:01:00	69.6	12:01:00
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67.9	12:00:02	58.5	12:01:02	72.6	12:01:02
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67.4	12:00:06	50.7	12:01:06	72	12:01:06
69.1	12:00:07	51.8	12:01:07	69.8	12:01:07
71.8	12:00:08	51.8	12:01:08	74.7	12:01:08
76.3	12:00:09	48.6	12:01:09	80.8	12:01:09
68.2	12:00:10	51.3	12:01:10	75.2	12:01:10
67.4	12:00:11	49.2	12:01:11	69.3	12:01:11
67.1	12:00:12	47.5	12:01:12	71.7	12:01:12
67.8	12:00:13	48.5	12:01:13	75.1	12:01:13
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63.5	12:00:22	48.2	12:01:22	71.6	12:01:22
61.9	12:00:23	47.6	12:01:23	71.1	12:01:23
61.8	12:00:24	45.8	12:01:24	71.1	12:01:24
59.8	12:00:25	46.9	12:01:25	72.9	12:01:25
61.7	12:00:26	54.6	12:01:26	72.6	12:01:26
61.5	12:00:27	48.7	12:01:27	72.8	12:01:27
64.2	12:00:28	46	12:01:28	69.1	12:01:28
62	12:00:29	47.4	12:01:29	69.8	12:01:29
61.4	12:00:30	46.9	12:01:30	68.9	12:01:30
62.3	12:00:31	42.8	12:01:31	69.8	12:01:31
64.4	12:00:32	44.7	12:01:32	69.9	12:01:32
65.3	12:00:33	49.3	12:01:33	69.8	12:01:33
63.6	12:00:34	45.8	12:01:34	70.6	12:01:34
61.1	12:00:35	46.5	12:01:35	71.4	12:01:35
68.1	12:00:36	45.8	12:01:36	70	12:01:36

62.7	12:00:37	51.1	12:01:37	70.9	12:01:37
61.2	12:00:38	48.2	12:01:38	73	12:01:38
60.4	12:00:39	47.4	12:01:39	74.2	12:01:39
60.8	12:00:40	46.8	12:01:40	71.8	12:01:40
61	12:00:41	45.8	12:01:41	70.5	12:01:41
62.5	12:00:42	51.6	12:01:42	66.4	12:01:42
61.2	12:00:43	45.1	12:01:43	70.1	12:01:43
62.5	12:00:44	48.5	12:01:44	72.4	12:01:44
63.3	12:00:45	45.6	12:01:45	71.6	12:01:45
63.8	12:00:46	50.7	12:01:46	74	12:01:46
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65.6	12:00:49	46	12:01:49	74.3	12:01:49
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67.5	12:02:31	54.8	12:03:31	68.5	12:03:31
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64.4	12:05:10	66.8	12:06:10	70.2	12:06:10

BIODATA PENULIS

Penulis memiliki nama lengkap Brigita Sance dan dilahirkan di Kab. Humbanghasumdutan,14 Mei 1996. Selama menenpuh studi Sarjana penulis bertempat tinggal di Jalan K.H Ahmad Dahlan Perintis 2/7 Surabaya. Penulis telah menempuh pendidikan formal, SD RK Bintang Kejora Lintongnihuta, SMPN 1 Lintongnihuta, SMA RK Budi Mulia Pematangsiantar. Setelah lulus dari SMA, penulis melanjutkan studinya di S1 Jurusan Matematika FMIPA ITS Surabaya tahun 2013. Selama perkuliahan penulis aktif mengikuti kegiatan kepanitiaan di KM ITS, seperti Kegiatan Mahasiswa PMK dan kepanitiaan PKMBK. Komunikasi lebih lanjut dengan penulis dapat melalui email simanjuntakbri688@gmail.com atau di nomor 0852 7602 7162.